Author index — Namenverzeichnis

A
Aaron, J. J. 219
Abas, A. 243
Abbas, S. A. 242
Abbott, F. S. 516
Abdallah, A. M. 211
Abdel-Aziz, H. 216
Abdel-Hay, M. H. 518
Abdel-Moety, E. M. 517
Abd-Elmottalb, M. 412
Abdel-Razak, O. 435
Abdullahi, G. L. 435
Abdullin, I. F. 207
– 329
– 497
Abdul-Nour, M. H. 325
Abe, O. 241
Abou-Donia, M. B. 349
Abouleish, E. 443
Aboul-Enein, H. Y. 516
Abounassif, M. A. 433
Abraham, S. J. 507
Abramović, B. F. 492
Abrutis, A. A. 515
Acharya, B. V. 414
Acheampong, A. 516
Ackermann, G. 667 Or
Adachi, K. 227
– 593
Adachi, O. 241
Adachi, Y. 440
Adam, A. 448
Adam, M. 235
Adams, F. 648
Adams, F. C. 655
Adams, J. 529
Adams, J. A. 310
Adams, J. M. 582
Adams, N. W. 570
Adams, P. S. 434
Addis, P. B. 238
Adinolfe, N. A. 342
Adriaenssens, E. 648
Adzet, T. 336
Aergerter, M. A. 497
Aerts, A. 406
Aerts, M. M. L. 583
Afford, S. C. 519
Afonso, A. M. 641
Agafonov, I. L. 656
Agafonov, P. F. 422
Agaga, D. 431
Agarwal, D. C. 493
Agasyan, P. K. 208
– 315
– 332
– 499
Agbo-Hazoume, P. 405
Agranovich, T. V. 322
Agrawal, A. K. 502
Agrawal, O. P. 329
Agrawal, Y. K. 213
– 495
Ahlborg, U. G. 511
Ahluwalia, S. C. 424
Ahmed, S. R. 579
Ahmed, Y. Z. 412
Ainshtein, A. A. 216
Airaudo, C. B. 652
Airoldi, L. 583
Ajami, M. 632
Akagi, T. 334
Akatsuka, K. 521
Akella, K. S. R. 652
Akhtar, S. 586
Akino, T. 346
Akintonwa, D. A. A. 516
Akita, M. 416
Akiyama, K. 514
Akizuki, K. 421
Aksnes, D. W. 220
Akulova, G. V. 503
Alak, A. 571
Alarcon, O. M. 521
– 589
Albaigés, J. 406
Albani, F. 444
– 594
Albers, S. 437
Albert, A. 448
Alberti, K. G. M. M. 588
Albrecht-Gary, A. M. 318
Aldabbgh, S. S. 307
Aldegunde, M. 234
Aldén, H. 505
Alder, J. F. 217
– 655
– 656
Alegret, S. 408
– 493
Aleixo, L. M. 515
Aleksandrov, M. L. 200
Alekseev, A. T. 406
Alekseeva, I. I. 505
– 510
Alekseeva, L. B. 579
Alessandro, R. T. 582
Alexander, P. W. 208
– 217
Alexandrov, A. 504
Al-Hajjaji, M. A. 430
– 499
Al-Herthani, A. 316
Alikhodzhaev, A. Kh. 414
Allen, L. V., Jr. 596
Allenmark, S. 343
Alluyn, F. 163 Or
Al-Najjar, H. 508
Alonso, J. 408
– 659
Alonso, J. G. 414
Alonso, L. 431
Alonso, R. M. 492
Al-Rahman, S. 229
Al-Saleh, I. 527
Al-Sammerrai, D. 508
Al-Shora, H. I. 229
Al-Sowdani, K. H. 495
Al-Tamrah, S. A. 430
Altemura, P. 569
Althaus, B. 347
Alton, K. B. 593
Alvarado, J. 321
Alwis, W. U. 345
Al-Zamil, I. Z. 430
Amankwa, L. 232
Amano, Y. 236
Amberson, J. A. 319
Ambrus, G. 239
Ameen, V. Z. 439
Ameniya, S. 238
Ameyama, M. 241
Ammann, D. 520
– 571
– 572
Amster, I. J. 201
Anagnostopoulou, P. I. 229
– 515
Anantharaman, P. N. 207
Anderegg, R. J. 437
Andermann, G. 518
Andersen, J. M. 235
Andersen, J. R. 521
Anderson, D. J. 240
Anderson, J. L. 231
Andersson, S. 343
Andino, M. 219
Ando, T. 311
– 342
– 416
– 498
– 501
Andrade, J. A. 199
Andrawes, F. 313
– 333
Andreev, G. 146 Or
Andreeva, I. Yu. 514
Andreu, M. T. G. 641
Andrews, A. T. 583
Andrews, G. E. 651
Andrienko, G. G. 585
Anfält, T. 658
Angelo, H. R. 349
Angerer, J. 351 Or
Anh-Tuan, N. 571
Anisimov, B. V. 579
Anjou, K. 226
Ansari, G. A. S. 447
Ansari, K. 500
Antipova-Karataeva, I. I. 212
Antokol'skaya, I. I. 320
Antonov, P. P. 316
Antonova, T. A. 574
Antonovich, V. P. 318
Anzano, J. M. 575
Aoki, I. 641
Aoki, T. 429
Aoshima, S. 243
Aparicio, X. 406
Apell, G. 235
Aposhian, H. V. 448
Appelqvist, R. 417
Appleton, J. M. H. 402
– 657
Aragay, A. M. 344
Arai, Y. 203
Arakawa, H. 448
Arakawa, M. 445
Araki, M. 202
– 416
Araki, T. 311
Arancibia, E. L. 221
Aravind, M. K. 445
Archer, A. W. 432
Archimbaud, M. 596
Aref'ev, I. M. 520
Arendt, G. 515
Areshidze, T. V. 422
Argekar, A. P. 414
Argueso, M. 494
Arisue, K. 242
Armani, E. 417
Armstrong, D. W. 216
– 418
– 571
– 633
Arnold, M. 323
Arpadjan, S. 278 Or
Arpino, P. 506
Arrendale, R. F. 584
Arthur, G. 440
Artiss, J. D. 522
Aruga, R. 645
Aruna, K. 641
Arunachalam, T. 418
Arunyanart, M. 310
Asafu-Adjaye, E. B. 632
Asano, M. 590
Asper, R. 520
Astaf'eva, I. N. 212
Aston, W. J. 587
Astruc, A. 644
Astruc, M. 644
Asuero, A. G. 299 Or
– 649
Atalay, A. 523
Ataman, O. Y. 403
Atkinson, G. F. 492
Atkinson, R. 586
Atsuya, I. 521
Atta, M. B. 636
Attig, R. 531 Or
Attri, A. K. 519
Aubourg, P. 342
Audebert, R. 343
Ausman, R. K. 445
Auterhoff, H. 565
Autran, J. C. 431
Avaldi, L. 306
Avigliano, L. 228
Avrutskaya, I. A. 508
Awadalla, F. T. 479 Or
Ayad, M. M. 518
Ayers, G. P. 333
Ayi, B. K. 227
Ayisi, N. A. 529
Ayyangar, N. R. 651
Azarova, M. A. 421
Aziz-Alrahman, A. M. 430
Aznarez, J. 211
– 318
Azzouzi, M. 448

B
Baars, A. M. 245
Baasner, J. 520
Baba, S. 528
Baba, Y. 240
– 323
– 442
– 645
Babkina, E. I. 579
Bablisi, A. H. 493
Bachrach, U. 522
Backer, R. C. 348
Badea, V. 230
Badings, H. T. 206
Badretdinova, G. Z. 207
– 329
– 497
Bächmann, K. 105 Or
Baert, E. 235
Baeyens, W. 340
Baeyens, W. R. G. 433
Baeza, J. 577
Baffi, F. 330
Bagdasarov, K. N. 423
– 495
– 575
Bagnasco, G. 226
Bagnasco, S. 234
Bagnato, L. 576
Bahadir, M. 377 Or
Bahia F.°, O. 649
Bailey, B. A. 242
Bailey, E. 447
Bailey, L. C. 586
Bain, D. C. 578
Baines, M. 525
Baiulescu, G. E. 230
– 515
Bajnóczy, G. 430
Baker, J. L. 584
Baker, W. L. 580
Balcerzak, M. 649
Balchunas, A. T. 339
Balconi, L. 647
Baldwin, R. P. 235
Balezina, O. A. 521
Ballschmiter, K. 1 Or
Balog, I. S. 317
Balogh, S. 586
Banerjee, A. K. 340
Banica, F. G. 344
Banner, C. 581
Bannykh, L. N. 320
Bansai, R. K. 215
Bansho, K. 645
Baranova, G. G. 216
Baranski, A. S. 636
Baratova, L. A. 239
Barbaro, A. M. 347
Barberan, F. A. T. 229
Barbosa, J. 493
Bardalaye, P. C. 587
Bardin, V. V. 219
Bardwell, J. A. 651
Barek, J. 329
– 434
Barkley, M. D. 567
Barkley, R. M. 313
– 326
Barling, P. M. 523
Barlow, J. J. 242
Barnard, C. L. R. 340
Barnes, A. C. 435
Barnes, R. M. 488
– 650
– 654
Barnes, S. 440
Barnes, W. N. 231
Barnhart, R. L. 592
Barone, G. 660
Baroni, U. 654
Barrado, E. 513
– 643
Barrington, K.-J. 245
Barron, K. 425
Barsewisch, E. H. R. von 505
Bartels, J. H. M. 334
Bartha, A. 308
Bartha, K. 202

Bartle, K. D. 204
– 651
Bartroli, J. 408
– 659
Bartsch, R. A. 641
Baruzzi, A. 444
– 594
Barzev, A. 255 Or
Basak, A. C. 215
Basch, R. S. 344
Bashir, W. A. 415
– 512
Basic, A. 346
Basov, V. N. 208
Basselier, J.-J. 506
Bastida, J. 243
Bates, L. J. 231
Bateson, S. W. 573
Batley, G. E. 636
Battiste, M. A. 202
Baturina, N. M. 504
Baty, J. D. 439
Baucells, M. 337
Baudot, Ph. 507
Bauer, T. L. 584
Baumgartner, E. 431
Baumhoer, G. 129 Or
Bavykina, N. I. 507
Baxter, D. C. 403
– 566
– 646
Baykov, A. 412
Baykut, G. 202
Baylocq, D. 223
Bayne, W. F. 526
Bayona, J. M. 406
Bazel', Ya. R. 317
Bazhenova, L. N. 215
– 647
Beal, S. L. 639
Beccaria, A. M. 427
Becher, G. R. 402
Beck, O. 245
Becker, K. H. 563
Bedard, P. R. 410
Bednarkiewicz, E. 222
Bedrin, L. C. 503
Beebe, K. R. 572
Beecher, G. R. 491
Beehler, C. L. 657
Beek, W. M. J. 583
Beer, P. R. de 338
– 339
Beferull Blasco, J. B. 220
Beger, J. 652
Beier, R. C. 225
Beinrohr, E. 215
Bekjarov, G. 255 Or
– 478 Or
Bekov, G. I. 510
Belal, F. 231
– 433
Belan, G. B. 506
Bélanger, D. 660
Belarra, M. A. 575
Bell, J. E. 635
Belle, S. J. P. van 446
Bellemans, L. A. 445
Belleroche, J. de 234
Belli, S. L. 587
Belliot, J.-P. 337
Bello, J. M. 568
Beloded, L. N. 507
Belokon', A. I. 507
Belokopytova, L. K. 312
Bel'skii, N. K. 521
Beltran, J. L. 639
Bel'tyukova, S. V. 642
Beltz, N. 655
Belyaev, N. F. 488
Belyaev, V. N. 321
– 502
Belyaev, Yu. I. 424
Bemgard, A. 406
Benabdallah, M. Z. 644
Benamor, M. 327
Bencsath, F. A. 640
Bendicho, C. 335
– 427
Benedetti, F. 341
Bengtsson, G. 429
Benjamin, L. E. 239
Benmessaoud, A. 506
Bennett, A. B. 524
Bentley, A. E. 656
Benyaev, N. E. 520
Benziger, D. B. 595
Berdysheva, S. V. 208
Berek, D. 486
Berenson, G. S. 439
Berestetskii, V. I. 410
Berezkin, V. G. 204
– 570
Berezovskii, F. I. 213
Berg, J. H. M. van den 653
Bergamin F°, H. 408
Bergamo F.°, H. 649
Bergmann, I. 529
Bergmeyer, H. U. 481
– 563
Bergmeyer, J. 481
– 563
Bergström, J. 236
Bergstrom, J. D. 240
Berka, A. 329
– 434
Berke, G. 592
Berkel, G. J. van 220
Berman, S. S. 330
– 567
Bermejo-Barrera, A. 316
Bermejo-Barrera, P. 316
Bermejo Martinez, F. 316
Bermúdez-Polonio, J. 632
Bernane, A. A. 321
Berndt, H. 520
Berne, R. M. 530
Bernstein, S. 226
Beroun, I. 224
Berridge, J. C. 629
Berrow, M. L. 578
Berset, C. 596
Berthod, A. 633
Berthold, F. 476 Or
Berthou, F. 407
Berthoud, A. 490
Bertler, A. 447
Bertrand, M. J. 312
– 418
Bertrand, P. 346
Bertsch, W. 580
Bertucci, C. 569
Beseme, F. 348
Besnus, Y. 509
Besse, A. 631
Betti, M. 638
Bettinelli, M. 654
Betty, K. R. 649
Beutler, H.-O. 426
Beyne, S. 426
Bhalerao, U. T. 418
Bhatnagar, R. R. 195 Or
Bhatt, V. J. 213
Bhattacharyya, P. K. 309
Biagi, G. L. 347
Bialkowski, S. E. 566
Bicking, M. K.I. 342
Bicking, M. K. L. 310
Bidlingmeyer, B. 511
Bieber, C. 153 Or
Bieganowska, M. L. 418
Bielby, C. R. 347
Bienvenu, J. 348
Bier, M. 207
Biermann, C. J. 523
Biermann, G. 639
Bièvre, P. de 411
Biggs, W. R. 329
Bighi, C. 521
– 585
Bigley, F. P. 335
Bikkulova, A. T. 659
Bilenko, O. A. 315
– 640
Billiet, H. 308
Billiet, H. A. H. 633
Billon, J. P. 518
Bills, N. D. 341
Binder, B. R. 529
Biondi, L. 231
Birckel, P. 349
Bischoff, K. 591
Bishop, C. 578
Bishop, R. 432
Biswas, S. S. 651
Blackburn, W. D. 241
Blades, M. W. 638
Blaha, J. J. 338
Blanchard, G. J. 631
Blanchflower, W. J. 337
Blanchin, M. D. 516
Blanco, M. 493
– 496
Blank, A. B. 306
Blanke, R. V. 342
Blasius, E. 126 Or
Blaszkewicz, M. 129 Or
Blaufuß, K.-H. 421
Blayo, M.-C. 446
Blazso, M. 574
Bleha, T. 486
Blilie, A. L. 309
Blo, G. 585
Blok, N. Yu. 221
Blomberg, L. 406
Blomberg, L. G. 205
Bloodworth, A. J. 325
Bloore, C. 587
Blum, W. 205
– 570
Blunden, C. A. 576
Blust, R. 232
Blusztajn, J. K. 436
Bobleter, O. 461 Or
Bochenkova, K. N. 221
Bochkarev, V. N. 326
– 507
Bódy-Szalkai, M. 430
Boef, G. den 490
– 637
Böhmer, R. G. 568
Boesch, Ph. 326
Bøg-Hansen, T. C. 199
Bognar, A. 227
Boguszewska, Z. 411
Boitsov, E. N. 221
Bojarski, J. 230
Bolick, R. 635
Bolotov, S. L. 204
Bol'shova, T. A. 320
Bonakdar, M. 435
Bond, A. M. 208
– 317
– 488
– 588
– 639
Bonn, G. 225
– 461 Or
Bontempelli, G. 216
Boodhoo, R. B. 339
Booker, J. L. 313
Boor, P. J. 447
Boothe, P. N. 512
Bordier, C. 588
Borea, P. A. 347
Borek, V. 329
Borisenko, E. M. 635
Borisova, V. N. 511
Borodina, V. L. 500
Borovskii, E. S. 324
Bos, M. 639
Bosch, E. 493
Bosch, P. van den 208
Bosch Ojeda, C. 319
Bossche, W. van den 516
Boter, H. L. 448
Bothe, D. 438
Bougnères, P. F. 342
Boulanger, J. 448
Boulikas, T. 236
Bourbon P. 349
Bourdeaux, M. 241
Bourgeois, C. F. 337
Bovara, R. 529
Bowen, H. J. M. 428
Bower, N. W. 404
Bowers, L. W. 203
Bowers, R. H. 228
Bownik, M. 547 Or
Bozimowski, D. 522
Boziz, J. 331
Bradfield, E. G. 337
Bradford, L. 577
Bradley, C. R. 436
Bradley, D. 340
Bradshaw, J. S. 204
– 570
Brätter, P. 408
– 588
Bragg, A. E. 220
Bragina, S. I. 221
Braibanti, A. 638
Brainina, Kh. Z. 206
– 322
Brajter, K. 404
Bramstedt, W. R. 324
Brandl, M. 245
Brandšteterová, E. 221
Brandt, G. 252 Or
Brannan, M. A. F. 342
Brantner, H. 438
Brash, A. R. 446
Brassat, B. 437
Brauer, E. 573
Braun, A. G. 595
Braun, J. 404
Brčić, I. 327
– 505
Breborowicz, J. 199
Brecht, E. 567
Bredesen, I. E. 244
Breimer, D. D. 444
Brekke, T. 220
Bres, J. 444
Bressolle, F. 444
Bresson, M. A. 426
Bretschneider, W. 580
Brewer, J. M. 236
Březina, M. 217
Briand, C. 241
Bricker, D. L. 202
Bridge, T. P. 329
Briele, H. A. 245
Bright, F. V. 588
Brill, G. M. 517
Brinckman, F. E. 653
Brinkman, U. A. Th. 308
– 587
– 634
Brito, R. M. M. 575
Briza, P. 344
Brodnjak-Vončina, D. 334
Broge, J. M. 228
Broks, J. 586
Brooks, A. G. F. 447
Brooks, M. A. 444
Broquaire, M. 446
Brosch, D. 217
Brown, C. 514
Brown, C. E. 201
Brown, K. F. 348
Brown, L. T. 525
Brown, P. N. 656
Brown, R. R. 595
Brown, R. S. 201
Brown, S. D. 208
– 639
Brownlee, R. G. 202
– 650
Browse, J. 336
Brücher, K.-H. 676 Or
Brueggemann, G. 349
Bruins, J. 73 Or
Bruneau, P. 339
Brunengraber, H. 522
Bruschi, C. 638
Brykina, G. D. 410
Brynzova, E. D. 412
Bubnis, B. P. 345
Buchanan, S. J. 402
Buck, R. P. 232
Buck, W. B. 583
Budevska, B. O. 430
Budgell, D. R. 339
Budnikov, G. K. 215
– 510
Buell, P. E. 569
Bünger, H. 308
Bugaevskii, A. A. 208
– 209
– 409
Bugakova, L. P. 222
Bugat, R. 594
Buhl, F. 501
Bui, C. 306
Buijten, J. 511
Bukhantsova, V. G. 200
Bukhbinder, G. L. 200
– 425
Bulatov, M. I. 403
Buldini, P. L. 512
Bull, A. W. 233
Bullen, W. W. 526
Bulska, E. 211
Bulycheva, I. B. 325
Buresch, O. 607 Or
Burford, R. P. 223
– 327
– 653
Burgess, D. D. 640
Burgess, R. 636
Burguera, J. L. 521
– 586
– 589
Burguera, M. 521
– 586
– 589
Burke, D. G. 580
Burke, M. F. 209
Burke, P. 329
Burlingame, A. L. 198
Burnett, D. 519
Burns, D. T. 322
Burns, N. M. 228
Burridge, J. C. 579
Burrin, J. M. 437
Burrous, M. R. 243
Burtscher, P. 461 Or
Burushkina, T. N. 338
Burylev, B. P. 494

Busche, C. 631
Buschmann, F. L. 235
Bushee, D. S. 641
Busheina, I. S. 322
Bushway, R. J. 338
Busker, E. 518
– 559 Or
Busygin, I. G. 215
Buszewski, B. 486
Butler, D. L. 200
Buydens, L. 231
Buzayev, V. V. 570
Bychkov, E. A. 316
– 317
Bye, R. 645
Bykov, I. V. 419
Byrne, A. R. 341
Bysouth, S. R. 403
– 484
Bystrova, G. I. 312

C
Cabañes, M. C. 657
Cabezudo, M. D. 487
Cabiness, L. R. 508
Cabon, J. Y. 567
Caccamo, F. 430
Caddy, B. 519
– 528
Cadilla-Perezrios, R. 235
Cagniant, D. 220
Cahill, C. M. 526
Caillard, C. 243
Calabrese, K. L. 344
Caldwell, K. D. 653
Caldwell-Kenkel, J. C. 521
Caletka, R. 637
Callejon Mochon, M. 644
Callery, P. S. 233
Callis, J. B. 326
Calvin, M.-C. 241
Calvo, A. 414
Camacho, M. V. 340
Camadro, J.-M. 241
Cambon, S. 575
Cammann, K. 11 Or
Campana, J. E. 524
Campbell, N. R. 314
Campi, E. 645
Campins Falco, P. 493
Campistron, G. 243
Campos, F. 321
Canal, P. 594
Candela, E. 340
Cano Pavón, J. M. 319
Canrick, G. R. 200
Cantwell, F. F. 418
Capacci, M. J. 339
Capasso, R. 525
Carati, D. 437
Carder, J. H. 442
Cardone, M. J. 638
Cardwell, T. J. 224
Carey, P. F. 526
Carey, W. P. 572
Carignan, G. 232
Carisano, A. 584
Carlomagno, L. 343
Carlone, G. M. 523
Carlqvist, J. 246
Carlson, T. L. 508
Carlsson, A. 309
Carlsson, B. 447
Carnrick, G. R. 403
Caroli, S. 483
Carr, J. W. 633
Carr, P. W. 203
Carrea, G. 345
– 529
Carroll, J. 305
Carter, J. A. 329
Carton, M. 594
Cartoni, G. 651
Cartoni, G. P. 347
Caruso, J. A. 203
Carvajal, N. J. 427
Cary, P. L. 590
Casa, E. della 525
Casassas, E. 411
Casetta, B. 323
Casey, M. L. 439
Casoli, A. 405
Caspi, E. 418
Castagnoli, N., Jr. 198
Castello, G. 499
Castells, R. C. 221
Castillo, J. R. 171 Or
– 335
– 427
– 495
– 575
– 648
Castoldi, D. 527
Castrillejo, Y. 513
– 643
Castronuovo, G. 660
Casucci, G. 594
Cataldi, T. R. I. 445
Cathapermal, S. 528
Cattle, D. L. 432
Cattrall, R. W. 214
– 224
Caude, M. 406
– 634
Caude, M. H. 216
Cave, M. R. 640
Cayley, G. R. 585
Cedergren, A. 646
Cellar, P. 206
Cendrowska, M. 514
Cerdá, V. 494
– 648
Cerklewski, F. L. 341
Cermáková, L. 320
Chaabane-Doumandji, B. 405
Chadha, R. K. 582
Chaika, I. K. 577
Chakir, S. 233
Chakraborti, D. 655
Chalabreysse, J. 596
Chalk, P. M. 574
Chamberlain, W. J. 584
Chambers, R. R., Jr. 506
Chambon, H. 241
Chambrin, P. Y. 446
Chan, K. K. H. 244
Chan, K.-M. 590
Chandola, H. C. 650
Chang, C. A. 216
– 418
Chang, St. S. 582
Chaouch, A. 582
Chapman, J. R. 629
Chappell, G. S. 578
Charmot, D. 343
Charykov, A. K. 514
– 658
Charyulu, M. M. 412
Chasseaud, L. F. 526
Chatfield, D. A. 632
Chatten, L. G. 232
Chattopadhyay, S. P. 431
Chaturvedi, G. K. 493
Chauhan, B. S. 412
Chaumery, Ch. 506
Chavko, M. 240
– 466 Or
Cheblakova, E. G. 325
Chechushkova, N. E. 495
Chek, W. L. 214
Chekalin, N. V. 419
Chekmareva, L. P. 216
Chen, I.-W. 518
Chen, J.-W. 210
Chen, P. Y. 502
Chen, S. S. 229
Cheng, H.-Y. 528
Cheng, L. K. 245
Chenieux, J. C. 336
Chen Wei-yong 422
Cherkesov, A. I. 322
Chernaya, A. V. 429
Chernysheva, T. Y. 570
Chernyshova, T. V. 325
Chiang, C. H. 520
Chiavari, G. 530
– 655
Chiba, K. 238
Chidsey, C. E. 636
Chien, K. R. 439
Chikai, T. 596
Chikryzova, E. G. 497
Chikuma, M. 539 Or
Chikuma, T. 530
Childers, A. G. 324
Chinenova, A. V. 509
Chipperfield, J. R. 210
– 637
Chisela, F. 588
Chi-Tang Ho 582
Chiu, G. 651
Chmelík, J. 209
– 489
Chmiel, Z. 577
Chmil', V. D. 338
Choi, K. E. 527
Cholerton, S. 525
Chol Soo, K. 317
Chortyk, O. T. 584
Choudhary, C. 564
Chow, A. 411
Chow Chong 321
Choy, P. C. 440
Chrisley, B. M. 238
Christensen, R. G. 335
Christie, D. L. 523
Christoffersen, R. E. 524
Christophe, J. 438
Christopoulos, T. K. 241
– 314
– 517
Chubakova, E. I. 489
Chu-Ngi Ho 660
Churáček, J. 500
– 652
Churchill, F. C. 527
Churchouse, S. J. 346
Chwistek, M. 501
Ciardi, M. 347
Ciganková, M. 633
Cintré, M. 575
Cipres, M. P. 318
Ciszewski, A. 212
Cizmárik, J. 515
Claas, K. E. 15 Or
Claeys, A. E. 410
Clark, C. R. 519
Clark, E. R. 589
Clarke, A. E. 346
Class, Th. 1 Or
Cléon, P. 220
Clercq, E. de 529
Cleuvenbergen, R. J. A. van 655
Cline Love, L. J. 310
Coates, J. P. 198
Coates, J. T. 577
Cobelli, L. 333
Coburn, S. P. 525
Cocivera, M. 424
Coddens, M. E. 205
– 633
Cody, R. B. 201
Coe, J. S. 512
Cohen, A. I. 244
Cohen, T. A. 213
Coker, S. T. 519
Colafranceschi, C. 446
Colby, H. D. 443
Colgan, S. T. 511
Colin, J. M. 221
Collier, W. G. 217
Colliss, J. S. 437
Colombini, M. P. 592
Colón, M. P. 495
Colson, E. R. 570
Colthup, P. V. 526
Combs, A. 595
Comisarow, M. B. 201
Compaño, R. 410
Conacher, H. B. S. 582
Consigli, R. A. 520
Constantinescu, B. 580
Constantini, S. 341
Contin, M. 444
– 594
Conway, W. D. 310
Cook, C. E. 339
Cooke, D. T. 337
Cooks, R. G. 220
Cooksy, K. D. 235
Cooper, W. J. 339
Corcia, A. di 430
Córdoba, M. H. 659
Corominas, L. F. 579
Corrao, P. A. 226
Cortes, H. J. 221
Cosofret, V. V. 230
– 232
– 515
Côte, L.-M. 583
Cotter, L. 231
Cotter, R. 203
Coufalová, O. 320
Coulais, Y. 243
Courtier, M. 518
Courtot-Coupez, J. 567
Cousin, H. 439
Cousins, B. 331
Cousins, D. R. 329
Coutts, R. T. 245
Covington, A.K. 409
– 588
Cowe, I. A. 485
Cox, A. G. 646
Cramers, C. A. 313
Crane, P. 437
Craun, J. C. 432
Cresser, M. S. 402
Crews, C. 227
Criddle, W. J. 507
Criscimagna, N. 525
Crom, W. R. 527
Croo, F. de 244
Crouch, S. R. 637
Crouzat-Reynes, G. 652
Cruz, J. L. 579
Csató, E. 596
Cserháti, T. 230
Csiky, I. 428
Cuatrecasas, P. 438
Cucchiarini, L. 234
Cullum, M. E. 592
Cunha, I. I. L. 425
Cunningham, L. 489
Curini, R. 592
Curnish, R. R. 530
Curran, D. J. 217
Curry, C. J. 329
Curry, K. A. 226
Cuthbertson, D. C. 485
Cutler, D. J. 348
Cyanovich, N. 345
Czech, B. P. 641
Czerwinski, A. 207
Czerwonko, A. 504
Czira, G. 239

D
Daban, J. R. 344
Dabek-Zlotorzynska, E. 404
Dacka-Seliga, H. 576
Dadone, A. 330
D'Agostino, P. A. 224
Dahlem, A. M. 583
Dalalyan, N. Ya. 508
Dale, L. S. 402
Dalene, M. 326
Dalferes, E. R., Jr. 439
Dallas, F. A. A. 526
Dalo, N. L. 436
Damas, J. 448
d'Amato, G. 499
Dame, P. W. 525
Dammann, V. 197
Damme, F. van 486
Dams, R. 163 Or
– 430
– 502
Daneels, G. 591
Danielson, N. D. 224
Danielsson, B. 523
Danielyan, D. G. 316
Danis, P. O. 568
Danishevskii, A. L. 496
Dannecker, W. 50 Or
Danz, H. J. 157 Or
Danzaki, Y. 420
Darkowski, A. 424
Das, A. K. 431
Das, B. 435
Das, H. K. 414
Das, I. 234
Das, P. K. 656
Das, S. B. 407
Das, S. K. 435
Dasgupta, P. K. 492
– 637
– 640
Das Gupta, V. 516
Dathe, K. 485
Datta, K. 435
Dauchy, P. 522
Dauengauer, S. A. 574
Daun, H. 227
Daunderer, M. 482
Davenport, T. W. 519
David, F. 205
– 522
David, M. 529
David, R. M. 446
Davidek, J. 225
Davies, G. J. 499
Davies, J. A. 656
Davies, L. M. 329
Davies Gunther, J. 199
– 304
– 630
Davis, G. 587
Davis, J. M. 489
Davis, P. F. 591
Davison, W. 638
Dawidowicz, A. L. 205
Dawson, M. I. 525
Day, G. T. 649
Day, R. A. 404
De, A. 650
Dean, J. R. 200

DeAngelis, J. J. 313
Deangelis, N. J. 227
Debets, H. J. G. 405
Debowski, J. 311
– 418
De Brucker, N. 506
Decadt, G. 340
Declair, W. 232
Decnop-Weever, L. G. 567
Dedkov, Yu. M. 503
– 585
Deguchi, M. 321
Dehnad, F. 658
De Jong, G. J. 634
Delaune-Mayere, M. 509
De Leenheer, A. P. 198
Delft, R. van 587
Delgado, M. 595
Della Torre, G. 584
Delle-Penna, D. 524
Delmotte, Y. A. 519
Delpech, B. 346
Delpech, M. 243
DeMark, B. 525
Demidova, M. G. 648
Demikhov, Yu. N. 213
Deming, P. C. 238
Deming, R. L. 488
De Moerloose, P. 232
– 407
Deng, P. 313
– 333
Denker, H.-W. 243
Dennin, R. M., Jr. 233
Dennis, M. J. 227
Denton, M. B. 203
Deo, M. D. 651
De Pauw, E. 417
Depecker, C. 485
Dermelj, M. 341
De Ruyter, M. G. M. 198
Des, A. K. 509
Desai, T. A. 495
Desaulniers, J. A. H. 330
Desbene, P. L. 506
De Schutter, J. A. 407
Desideri, P. G. 218
Desikan, N. R. 420
Desmet, B. 502
De Spiegeleer, B. 232
Desrivieres, D. 593
Deutsche Forschungsgemeinschaft 198
Devane, C. L. 594
Devgun, M. S. 440
Devi, S. 213
Devyatykh, G. G. 504
Dewies, J. 88 Or
DFG German Science Foundation 481
Dhanesar, S. C. 205
Dhaneshwar, R. G. 648
Dhindsa, K. S. 418
D'Hoore, W. 235
Diamandis, E. P. 241
– 314
– 517
Diaz, C. 413
Diaz, I. 226
Diaz, P. 344
Dickinson, C. M. 527
Dickinson, R. G. 348
Dicks, J. M. 587
Dietze, U. 404
Digenis, G. A. 499
Dignam, M. J. 651
Dijkman, J. H. 519
Dikkeschei, L. D. 239
DiMarzio, S. 342
Di Maso, M. 419
Dimova, N. 218
Dindi, S. N. 212
Diricks, G. 205
Dittrich, K. 631
Divakar, T. E. 228
– 434
Divisek, J. 426
Dixit, L. 650
Dixon, S. T. 594
Djingova, R. 278 Or
Dlask, V. 512
Dobashi, A. 591
Dobčnik, D. 334
Dobreva, D. 255 Or
Dockham, P. A. 591
Dodds, J. 575
Doehl, J. 239
Döhren, H. v. 438
Doerffel, K. 485
Doerfler, W. 242
Döring, C. E. 218
Dohmen, F. T. M. 408
Doi, K. 322
Dokiya, Y. 333
Dolanský, J. 504
Dolmanova, I. F. 317
Dolphin, R. J. 228
Domingo-Garcia, M. 311
Donais, A. 418
Donaldson, E. M. 490
Donard, O. F. X. 659
Dooper, R. P. M. 206
Doran, J. 446
Dorbon, M. 506
Dordonnat, J. M. 582
Dorn, S. B. 626 Or
Dorschel, C. 511
Dorsey, J. G. 203
– 571
Dossena, A. 417
Doucet, D. 446
Douse, J. M. F. 592
Dow, J. 246
Downey, D. M. 213
Dozmorov, S. V. 501
Drapailo, O. M. 651
Drasch, G. 285 Or
Dratz, E. A. 592
Drauz, K. 298 Or
Dreux, M. 405
– 658
Drew, P. K. P. 655
– 656
Driscoll, J. N. 432
– 569
Driskell, J. A. 238
Drobyshev, A. I. 509
Drouen, A. C. J. H. 633
Drozd, A. V. 429
Druz', S. V. 503
Dryon, L. 228
Dryssen, D. 657
Dubois, D. 525
Dubois, P. 652
Duchateau, N. L. 411
Duda, C. 487
Duddeck, H. 217
Duebelbeis, D. O. 416
Dufka, O. 652
Dumain, J. 581
Dunach, J. 411
Duncan, I. S. 403
Duncková, E. 515
Dunemann, L. 121 Or
Dungs, K. W. 403
Dunn, T. L. 241
Duran, N. 577
Duran, R. 234
Durand, G. 506
Durden, D. A. 242
Dusci, L. J. 447
Dvorkin, V. I. 520
Dybczyński, R. 307
Dyk, L. P. van 338
Dzene, A. Ya. 321
Dzherayan, T. G. 215
Dzhumaev, A. R. 204

E

Eadie, M. J. 348
Eatherton, R. L. 433
– 635
Eaton, D. K. 341
Eaton, L. C. 525
Ebdon, L. 425
Ebermann, R. 577
Ebihara, M. 330
Ebinger, G. 234
Echols, R. E. 227
Ecknig, W. 308
Eckschlager, K. 483
Edinboro, L. E. 348
Edmond, J. 240
Edmond, J. M. 642
Edmonds, P. 523
Edwall, G. 572
Edwards, D. J. 528
Edwards, W. P. 431
Efimov, N. K. 216
Efremenko, O. A. 233
Efstathiou, C. E. 208
Egashira, S. 308
Egger, K. P. 41 Or
– 597 Or
Eggers, N. J. 432
Egorova, A. V. 642
Egorova, V. A. 325
Eiceman, G. A. 510
Eide, M. O. 220
Eidgenöss. Bundesamt für Gesundheitswesen 400
Einarsson, S. 591
Ekanem, E. J. 340
Eklund, G. 505
El-Asmy, A. F. 211
El-Bardicy, M. G. 517
Elbein, A. D. 529
El-Brashy, A. 516
El-Defrawy, M. M. 211
Elia, V. 660
Eliot, E. 216
Elkin, R. G. 337
Ellenberger, H. A. 522
Elliott, W. H. 347
Ellis, B. 235
Elmosalami, M. A. F. 178 Or
Elmosalamy, M. A. F. 641
Elsayed, M. A. 435
El-Shobokshy, M. S. 563
El-Sweify, F. H. 412
Elvidge, J. A. 629
Elyashberg, M. E. 209
El-Yazbi, F. A. 435
El-Yazigi, A. 527
– 595
Elzerman, A. W. 577
Engel, Ch. 342
Engelhardt, H. 328
– 585
Engelmann, C. 630
Engstrom, R. C. 636
Ensminger, W. D. 441
– 445
Eppert, G. 515
– 576
Erb, N. 441
Erbelding, W. F. 525
Erickson, E. D. 652
Eritsyan, M. L. 508
Erkovich, G. E. 505
Ermolenko, I. N. 635
Ermolenko, V. M. 521
Eröss-Kiss, K. 586
Ers, P. 448
Ersoy, L. 231
Escobar, L. J. 347
Escousse, A. 581
Escriche, J. M. 641
Eshwar, M. C. 317
– 644
Essing, A. 8 Or
Estel, D. 218
Etho, M. 649
Etoh, M. 424
Evans, E. A. 629
Evans, J. V. 342
Evans, M. B. 488
Evans, W. A. 527
Evenko, G. N. 568
Evgenidis, J. 530
Ewels, B. A. 313
Eyler, J. R. 202
Ezheleva, A. E. 504
Ezra, I. 586

F

Fabre, H. 516
Facchini, M. C. 655
Fadeeva, V. I. 419
– 490
Fagan, D. T. 314
Fagioli, F. 521
Fahimi, H. D. 442
Faigle, J. W. 230
Faizullah, A. T. 492
Falamerz, S. 415
Falendysh, E. R. 651
Falk, H. 589
Falk, P. M. 595
Fallon, K. D. 443
Fanelli, R. 583
Fang, Zh. 576
Fanucchi, M. P. 445
Far, G. 497
Farag, A. B. 316
Farag, F. 445
Farbrot, A. 635
Farias, P. A. M. 232
Farid, K. Z. 443
Farnworth, E. R. 346
– 440
Farroha, S. M. 325
Farwell, S. O. 509
Fasanmade, A. A. 517
Fast, D. M. 522
Fattah, F. A. 433
Faull, K. F. 245
Faure, R. 220
Favell, D. F. 432
Faymonville, M. E. 448
Fayyad, M. 657
Fedai, I. 518
Fedoroff, M. 323
– 501
Fedorov, L. A. 493
– 494
Fedorova, N. D. 322
– 502
Fedotov, N. A. 640
Fehér, Zs. 408
Feldman, B. J. 636
Felice, L. J. 528
Fell, A. F. 329
– 517
Fell, D. 239
Fell, G. S. 340
– 403
– 589
Fenech, C. 522
Feng, C. 586
Feng, R. 568
Fenyvesi, É 230
Fernandes, K. A. 593
Fernández-Arciniega, M. A. 492
Fernández-Morales, I. 311
Fernández Pereira, C. 413
Fernández-Sánchez, E. 487
Fernando, Q. 503
Ferrario, P. 594
Ferrer, A. 211
– 318
Ferreres, F. 229
Ferriol, M. 334
Ferslew, K. E. 590
Fetzer, J. C. 329
Fiedler, H.-P. 434
Field, F. H. 640
Fielden, P. 217
Fijałkowski, J. 496
Filby, R. H. 220
Finazzi-Agrò, A. 228
Fioshin, M. Ya. 508
Firth, N. L. 226
Fischer, R. 485
Fischer, W. R. 337
Fisher, G. H. 235
Fisher, R. C. 596
Fishman, A. P. 345
Fisicaro, E. 638
FitzGerald, G. A. 446
Flamerz, S. 512
Flanagan, V. P. 338
Flavelle, F. 650
Fleitman, J. 578
Flesch, F. 349
Fleury, G. 433
– 434
– 435
Flieger, A. 320
Flora, W. 331
Florence, E. 584
Florkowski, T. 511
Földi, P. 437
Fogg, A. G. 492
Folestad, S. 635
Fomicheva, T. N. 487
Forbes, R. A. 632
Forteza, R. 494
– 648
Fossati, P. 233
Fouchard, R. C. 346
– 440
Fouchères, M. C. 220
Fowler, W. K. 427
Fox, A. 345
Frache, R. 330
Francotte, E. 204
– 230
Frank, H. 202
– 313
Fraschini, F. 594
Fraser, S. M. 578
Frazer, S. 209
Frech, W. 566
– 646
Frede, E. 431
Fredj, G. 446
Freeman, J. E. 324
Freemann, R. R. 339
Freer, J. 577
Freese, A. 436
Frei, R. W. 438
– 634
Freiha, B. 488
Freiser, B. S. 202
– 632
Freiser, H. 489

French, S. B. 487
Frenzel, F. 395 Or
Frenzel, W. 408
Fresenius, W. 399
Fretthold, D. 593
Freundlich, L. 311
Frey, M. D. 636
Friedersdorff, L. S. 435
Frimmel, F. H. 68 Or
– 428
Fritig, B. 577
Fritschy, F. 431
Fritz, A. 336
Fritz, D. A. 324
Fritz, J. S. 307
Frohne, D. 303
Frost, S. A. 307
Frumina, N. S. 325
Fry, R. C. 631
Frydman, A. 246
Fucskó, J. 408
Fürst, L. 426
Fürst, P. 437
Fujieda, S. 208
Fujihira, Y. 332
Fujimori, K. 590
Fujimoto, C. 223
– 306
Fujimura, K. 416
– 498
– 501
Fujimura, Y. 447
Fujino, O. 658
Fujisawa, M. 642
Fujita, K. 413
Fujita, S. 442
Fujita, T. 237
Fujita, Y. 413
Fujiwake, H. 571
Fujiwara, K. 659
Fukuda, R. 445
Fukuhara, K. 321
Fukuhara, T. 417
Fukui, F. 240
Fukuno, A. 423
Fukuoka, H. 566
Fuller, R. 340
Funakoshi, T. 438
Funazo, K. 413
Fund, W. 213
Fung, D. M. 219
Fung, Y. S. 228
Funk, W. 197
Fuoco, R. 635
Furängen, A. 416
Furton, K. G. 312
– 633
Furukawa, K. 424
Furuya, K. 656
Futekov, L. 255 Or
– 478 Or
Fuwa, K. 334
– 496
– 659
Fytianos, K. 477 Or

G

Gaál, F. F. 492
Gabbay, J. 657
Gadzekpo, V. P. Y. 314
Gaertner, H. 236
Gaffney, J. S. 313
Gaibakian, D. S. 407
Gaidukevich, A. N. 325
Gaikowski, M. 218
Gaikwad, A. G. 213
Gaillot, J. 246
Gaines, J. A. 326
Gal, J. Y. 427
Galan, L. de 308
Galan, L. de
– 633
Gal'bershtam, M. A. 221
Galensa, R. 225
Galinova, K. G. 409
Galkina, I. L. 520
Galkina, L. L. 331
Gall, L. N. 200
Gallai, Z. A. 316
Gallarta, F. 575
Gallego, M. 317
– 432
Galli, M. 221
Gallion, C. 349
Gamerith, G. 438
Gammans, R. E. 526
Gammelgaard, B. 521
Gamot, A. P. 434
Gampp, H. 210
Ganago, L. I. 409
Gancedo, T. 632
Gangoda, M. E. 407
Ganguli, C. K. 509
Ganno, S. 343
Ganz, J. 225
Garaj, J. 206
– 221
Garbo, G. M. 441
Garbolas, G. A. 499
Garciá, I. L. 659
García, J. A. 513
García, J. R. 633
García-Anton, J. 212
– 329
Garcia de Torres, A. 319
García-Domínguez, J. A. 487
García Montelongo, F. 641
García-Puignou, L. 411
Garcia-Regueiro, J. A. 226
García Sánchez, F. 498
– 588
Gardner, G. J. 567
Gardner, K. M. 244
Gardner, M. J. 263 Or
– 638
Gardner, M. L. G. 342
Garneau, M. 522
Garozzo, D. 508
Garrett, E. R. 304
Garrett, N. C. 590
Garrison, A. W. 577
Garteiz, D. 633
– 634
Gartrell, M. J. 432
Gasch, Gómez, J. 413
Gaspar, G. 221
Gatford, C. 647
Gathercole, P. S. 432
Gavinelli, M. 583
Gavino, V. C. 522
Gawlick, D. 588
Gayte-Sorbier, A. 652
Gazdag, M. 219
Gazet, J. 334
Geerdink, R. B. 308
– 587
Geerlings, P. 231
Gehringer, W. 577
Geisler, M. 578
Gennaro, M. C. 574
– 644
Geoffroy, P. 577
George, P. R. 337
Georges, J. 210
– 569
Georgievskii, V. P. 326
Gerber, J. M. 426
Gerhardt, J. 313
Gershoni, J. M. 592
Gerth, K. 521
Ghaderi, S. 201
Ghaoui, L. 429
Gharfeh, S. G. 573
Ghe, A. M. 530
Gheorghiev, G. K. 430
Gheyssens, L. C. 596
Ghini, S. 529
Ghoos, Y. 347
Ghosh, D. 314
Ghosh, U. C. 407
Giambelli, L. 224
Giancola, C. 660
Giang-hua Liu 231
Giaretta, A. 323
Giarrusso, A. 347
Giauque, R. D. 632
Gibert, M. 405
Gidday, J. M. 530
Giddings, J. C. 653
Giddings, S. L. 570
Giese, R. W. 235
– 529
Gilbart, J. 345
Gil'bert, E. N. 200
– 425
Gilbert, J. 581
Gill, R. 218
– 514
Gillain, G. 583
Gillett, R. W. 333
Gilli, R. 241
Gilpin, R. K. 407
Gindullina, T. M. 489
Giné, M. F. 649
Gingerich, R. L. 347
Ginman, F. A. 437
Giordano, R. 341
Girard, I. 327
Girard, J. E. 569
Girotti, S. 529
Gish, G. L. 329
Gisin, M. 491
Gjede, H. 242
Glab, S. 572
Gladysheva, G. P. 212
Glajch, J. L. 523
Glöckner, G. 653
Głowniak, K. 418
Gloxhuber, C. 400
Gluckman, J. C. 486
Glushakova, I. N. 494
Gmelin 197
– 400
– 401
– 483
Gode, K. D. 515
– 517
Godel, H. G. 437
Godinho, O. E. S. 515
Godyna, N. F. 319
Goebel, K.-J. 244
Görög, S. 303
– 417
Götz, A. 24 Or
Goeyens, L. 340
Gohshi, Y. 568
Golas, J. 489
Golay, M. J. E. 204
Goldey, C. 584
Goldshtein, M. M. 503
Goliber, P. A. 404
Golimowski, J. 514
Golloch, A. 83 Or
Golop, P. 404
Golovnya, R. V. 206
– 487
Golwalkar, A. M. 214
Gomez, M. T. 171 Or
Gómez Ariza, J. L. 493
Gomez Ariza, J. L.
– 649
Gómez-Hens, A. 213
– 640
Gonnet, C. 327
Gonon, F. G. 522
Gopinath, N. 411
Gorbach, S. 449 Or
Gorbunov, A. I. 216
Gordeev, L. S. 505
Gordon, G. 491
Górecki, T. 547 Or
Gorham, J. 336
Gornostaeva, T. D. 420
Gorski, B. 425
Gortemaker, B. G. M. 227
Gorton, L. 210
– 417
Goshorn, C. 444
Gossain, V. 435
Goto, J. 596
Goto, K. 305
Goto, M. 308
Gottlieb, M. 442
Gould, M. 523
Gowda, A. T. 649
Goworek, J. 486
Graaff, M. van der 444
Grace, A. M. 241
Grady, S. 590
Graefe, K. 588
Gräßmann, W. 588
Graf, R. T. 575
Gramain, Ph. 306
Gramiccioni, L. 342
Granados, M. 496
Grandpré, P. de 635
Grant, A. 309
Graser, T. A. 437
Grases, F. 425
– 497
Grasserbauer, M. 565
Grassini-Strazza, G. 311
Graßl, M. 481
– 563
Grasso, G. 576
Gray, A. 345
Green, J. D. 243
Greenblatt, D. J. 593
Greenfield, S. 484
Greenhow, E. J. 493
Gregory, J. R. 210
Greibrokk, T. 221
– 239
– 309
Greibrook, T. 244
Grekov, A. P. 500
Gribov, L. A. 209
Grieve, M. C. 508
Griffith, J. E. 337
Griffiths, J.-M. 423
Griffiths, P. R. 570
– 635
Grigor'eva, D. N. 206
Grime, J. K. 482
Grimm, C. A. 220
Grinshpan, D. D. 635
Grisham, C. M. 486
Grishina, O. N. 320
Grishko, V. I. 503
Grishko, V. P. 503
Grizodub, A. I. 326
Grob, G. 205
Grob, K. 205
Grob, K., Jr. 204
Grob, R. L. 335
Grobecker, K.-H. 404
Groenewold, G. S. 632
Groeningen, C. J. van 444
Grognard, M. 333
Gross, M. L. 201
– 327
Grotowska, M. 504
Grudzeva, T. M. 323
Gruner, W. 611 Or
Guardia Cirugeda, M. de la 220
Gudovicheva, N. N. 221
Gudzenko, L. V. 323
Günther, K. 298 Or
– 518
Günzel, G. 336
Günzler, H. 399
Gürkan, T. 518
Guerra, M. C. 347
Guevara, J. G., Jr. 344
Guikema, J. A. 520
Guilbault, G. G. 415
– 522
– 590
Guilland, J.-C. 238
Guilloton, M. 341
Guinebault, P. 446
Guinón, J. L. 212
– 329
Guiochon, G. 206
Guiraum Perez, A. 644
Guixian, H. 204
Gulevich, A. L. 324
– 327
– 498
Gumbs, G. 587
Gunderson, E. L. 432
Gundorina, A. A. 219
Gunn, A. M. 263 Or
Gunther, F. A. 199
– 304
– 630
Gupta, R. B. 650
Gur'ev, I. A. 513
Gur'eva, Z. M. 513
Gurusinghe, A. 591
Gusakova, N. N. 325
Gusarov, A. A. 494
Gusev, S. I. 494
Gusev, V. I. 494
Guthauser, U. 347
Guthrie, R. 441
Gutierrez, A. 236
Gutierrez, M. C. 640
Guy, R. D. 337
Guyon, F. 522
Gu Yuan-xiang 422
Gyllenhaal, O. 244
– 517
– 526

H

Haagsma, N. 227
Habashi, F. 479 Or
Habboush, A. E. 325
Hachey, D. L. 525
Hackett, L. P. 447
Haddad, P. R. 208
– 217
– 307
– 647
Hadfield, H. G. 437
Hadi, D. A. 168 Or
Hadjiioannou, T. P. 208
– 241
– 517
Hadžija, O. 646
Haerdi, W. 326
Häussler, M. 293 Or
Hafkenscheid, J. C. M. 529
Hagaman, E. W. 506
Hagardorn, A. N. 590
Hagen, B. 527
Hagenmaier, H. 603 Or

Hagestam, I. H. 486
Haginaga, J. 527
Haginaka, J. 246
Hagiwara, T. 514
Hahn, E. G. 345
Haidam, N. Z. 654
Haines-Nutt, R. F. 434
Haire, D. L. 219
Hajšlaová, J. 225
Haken, J. K. 223
– 327
– 488
– 499
– 653
Haky, J. E. 652
Halbert, M. K. 235
Haldna, Ü. 307
Hale, P. W., Jr. 348
Halicz, L. 331
Hall, G. M. 437
Halls, D. J. 403
– 589
Halsall, H. B. 518
Halvax, J. J. 438
Hamaguchi, A. 428
Hamano, Y. 343
Hamid, A. A. R. 445
Hamilton, I. C. 214
– 224
Hamilton, J. T. G. 337
Hamilton, M. 443
Hamilton, S. E. 434
Hammer, K. D. 660
Hamza, A. G. 316
Han, H.-b. 644
Han, S. M. 519
– 632
Hanai, T. 203
– 218
– 498
Hanasaki, T. 429
Hancock, T. T., Jr. 427
Handelman, G. J. 592
Hangos-Mahr, M. 428
Hankish, K. 220
Hanna, G. M. 516
Hannak, D. 342
Hanning, I. 588
Hansen, A. S. 224
Hansen, B. 525
Hansen, E. H. 490
– 588
Haperen, P. van 569
Hara, H. 512
Hara, S. 421
– 439
– 591
Harada, H. 441
Harada, K. 405
Haraguchi, H. 334
Harding, A. R. 574
Hardisty, C. A. 341
Hardy, R. 227
Hare, P. E. 437
Hareez, A. K. 415
Harman, P. J. 594
Harms, H. 587
Harnly, J. M. 305
– 402
Harper, B. 293 Or
Harrington, D. E. 324
Harris, A. G. 651
Harris, J. M. 633
Harris, P. J. 346
Harris, W. M. 583
– 584
Harrison, B. C. 595
Harrison, P. M. 526
– 594
Hart, J. P. 525
Hartmann, G. 105 Or
Harvey, H. R. 237
Hasegawa, N. 319
Haseth, A. de 310
Hashida, S. 592
Hashimoto, N. 318
Hashimoto, T. 223
Hashimoto, Y. 325
– 657
Hashizume, M. 416
Haskó, F. 202
Hassan, S. S. M. 178 Or
– 641
Hasselmann, C. 431
Hasty, R. A. 505
Hatada, K. 203
Hatano, H. 240
– 308
– 566
Hatfield, H. L. 578
Hattori, T. 653
Hausbeck, R. 597 Or
– 637
Havel, J. 638
Haver, G. M. van 582
Hayakawa, K. 592
Hayakawa, T. 334
– 429
Hayashi, C. 242
Hayashi, R. 226
– 526
Hayashi, T. 235
Hayball, P. J. 243
Headridge, J. B. 322
Heald, J. K. 225
Hecht, G. 426
Heck, L. W. 241
Heckenberg, A. L. 307
Hedbom, E. 439
Hediger, H. J. 304
Hefferan, T. E. 238
Hegemann, J. H. 530
Heikes, D. L. 229
Heikkilä, P. 655
Heimer, R. 345
Heimler, D. 218
Heine, D. R. 203
Heinegård, D. 439
Heineman, W. R. 518
Heinz, F. X. 344
Heisz, O. 204
Heizmann, P. 593
Hel, S. H. 337
Helfman, G. W. 585
Heller-Schöch, G. 441
Helliger, W. 524
Hellmann, U. 290 Or
Hemminger, J. C. 201
Henderson, D. E. 569
Hendrick, M. S. 404
Hendrickx, F. 411
Hendriks, T. 592
Hengy, H. 443
Henion, J. D. 635
Hennemann, O.-D. 281 Or
Hennig, K. 561 Or
Henning, H. V. 440
Henry, D. P. 443
Henschen, A. 399
Henschler, D. 351 Or
Her, G. R. 239
Heras, A. P. 579
Herbert, B. H. 344
Hercules, D. M. 328
Herényi, B. 417
Hermann, C. 577
Hermansson, I. 432
Hernandez, F. H. 641
Hernandez, L. 229
– 300 Or
Hernandez, P. 300 Or
Hernández Córdoba, M. 220
– 316
– 414
– 513
Hernández Hernández, F. 315
Hernández López, M. 498
– 588
Herrador, M. A. 299 Or
Herraiz, M. 487
Herregodts, P. 234
Herrmann, K. 225
Hesketh, H. E. 563
Hesse, W. 73 Or
Hessels, M. 529
Hetper, J. 652
Heuberger, K. 436
Heumann, K. G. 24 Or
– 661 Or
Hewitt, I. J. 579
Heyndrickx, A. 631
Heyns, K. 481
Heywood-Waddington, D. 310
Hichcock, C. H. S. 432
Hicks, O. H. 655
Hida, M. 214
Hieftje, G. M. 324
– 484
– 566
Higgins, J. 594
Hikal, A. H. 246
Hikichi, N. 443
Hill, A. R. C. 339
Hill, H. H., Jr. 433
– 566
– 635
Hill, R. M. 523
Hilliard, E. 580
Hillier, E. 203
Hilpert, K. 141 Or
Hilton, D. F. 647
Himmelhoch, J. M. 528
Hinds, M. W. 337
Hines, J. W. 517
Hinsvark, O. N. 444
Hippe, Z. 485
Hirai, A. 237
– 592
Hirai, H. 524
Hiraki, K. 219
Hirano, H. 442
Hirano, J. 653
Hirata, Y. 223
Hiratani, K. 572
Hirayama, C. 204
Hirokawa, K. 396 Or
Hirose, K. 333
Hirose, Y. 657
Hirota, E. 304
Hirschfeld, T. 566
– 572
Hirtz, J. L. 304
Hirukawa, M. 203
Hjertén, S. 206
– 207
Ho, C.-T. 227
Ho, J. 441
Ho, S. S. J. 633
Hobbs, P. D. 525
Hobo, T. 211
Hocart, C. H. 440
Hochlowski, J. E. 517
Hodgin, J. C. 418
Höfler, F. 365 Or
Hönle, W. 607 Or
Hoffman, D. J. 594
Hoffmann, E. 589
Hoffmann, J. 297 Or
Hoffmann, N. E. 445
Hoffmann, P. 558 Or
Hoffmann, S. 205
Hofman, P. H. 444
Hofmann, B. 618 Or
Hohaus, E. 15 Or
Hoinard, C. 652
Holland, M. L. 593
Hollowell, D. A. 491
Holotík, S. 224
Holstein, W. 220
Holt, N. J. 592
Holzbecher, M. 522
Holzman, T. F. 238
Homan, A. C. 432
Hon, P.-k. 645
Honda, K. 308
– 436
Honda, S. 203
Hondo, T. 203
– 309
– 591
Honma, T. 590
Hoogenboom, J. J. L. 349
Hooper, W. D. 348
Hopke, P. K. 400
Hopp, D. 403
Hopp, W. 68 Or
– 428
Horgan, R. 225
Horiguchi, M. 593
Horka, M. 406
Horna, A. 652
Horowitz, P. 525
Horváth, G. 239
Hoshi, M. 425
Hoshi, S. 318
– 413
– 573
Hoshino, T. 203
Hoshita, T. 440
Hosokawa, H. 413
Hosomi, S. 439
Hosseinmardi, M. M. 441
Hoste, J. 430
Houck, R. K. 487
Houglum, J. E. 578
Houin, G. 243
Houk, R. S. 568
Howang, K. T. 202
Hsieh, J. Y.-K. 526
Hsu, A. T. 201
Hsu, C.-G. 502
Hsueh, W. 585
Hu, I.-F. 314
Huang, C. H. 520
Huber, C. O. 328
– 413
Huber, J. F. K. 209
Huber, L. 333
Huber, W. 399
Huber III, J. W. 344
Hubert, J. 498
Hubert, M. 240
Huc, A. 506
Hudson, H. A. 639
Huebner, V. D. 343
Hübscher, U. 242
Huet, J.-C. 581
Hughes, A. 345
Hughes, H. 237
Hulanicki, A. 211
Hull, S. R. 346
Hulse, G. A. 406
Hulst, A. G. 448
Humfeld, S. 441
– 444
Hummel 197
Hupe, K.-P. 399
Hupé, M. 651
Hurdley, T. G. 218
Hurtubise, R. J. 568
– 632
Husain, S. 418
– 651
– 652
Hussain, M. F. 215
Hutchins-Kumar, L. D. 488
Hutte, R. S. 313
Huvenne, J. P. 433
– 435
Hwang, D.-G. 447
Hwang, H. 640

I

Iborra, J. E. 243
Ibrahim, F. 433
Ibusuki, T. 214
Ichikawa, E. 524
Ichikawa, M. 438
Ichimura, K. 238
Ichimura, T. 236
Ichinose, M. 655
Ichinose, N. 227
– 593
Ichioka, T. 592
Idilbi, M. M. 435
Igarashi, C. 224
Ignatiadis, I. 506
Ihara, H. 204
Ihrke, M. 515
Iida, A. 568
Iida, C. 305
– 510
Iida, Y. 235
Ijames, C. F. 201
Ikeda, M. 495
Ikeda, S. 316
– 429
Ikegami, T. 448
Ilcheva, L. 11 Or
Iles, P. J. 224
Ilett, K. F. 447
Illman, D. L. 572
Imai, H. 343
Imai, K. 308
– 436
– 591
– 632
Imai, S. 428
Imakita, T. 420
Imanari, T. 646
Imasaka, T. 566
Imoto, T. 236
Inden-Okazaki, Y. 236
Indyk, H. 582
Ingman, F. 572
Inoue, K. 593
Inoue, S. 318
– 413
– 421
– 573
Ionescu, M. S. 230
– 515
Iriyama, K. 593
Irving, H. M. N. H. 493
Irving, J. 348
Isakow, K. 523
Isaksson, K. 522
Ishchenko, A. V. 321
Ishibashi, N. 566
Ishida, H. 575
Ishida, I. 527
Ishida, J. 246
Ishida, K. 642
Ishii, D. 308
Ishii, M. 658
Ishii, Y. 530

Ishikawa, E. 530
– 592
Ishizuka, I. 237
Ishizuka, T. 424
Iskander, F. Y. 584
Isobe, T. 236
Isoda, Y. 653
Isozaki, S. 443
Issaq, H. J. 438
Itkonen, A. 333
Ito, A. 310
– 343
Ito, K. 445
– 530
Ito, M. 203
Ito, N. 448
Ito, T. 644
Ito, Y. 308
– 310
– 338
– 577
– 587
Itoga, F. 236
Itoh, K. 346
– 521
– 539 Or
Itoh, M. 417
Itoh, T. 346
– 521
– 524
Itoh, Y. H. 524
Ivanov, A. A. 223
– 500
Ivanov, E. 580
Ivanov, V. M. 212
– 320
– 409
– 498
– 643
– 659
Ivanov, V. N. 507
– 508
Ivanov, Yu. A. 489
Ivanova, N. P. 333
Ivanova, N. T. 326
– 507
Ivashkiv, E. 244
Ivaska, A. 408
Iversen, T. 527
Iwabuchi, Y. 324
Iwai, M. 421
Iwamoto, K. 202
Iwaoka, M. 323
Iyengar, J. R. 225
Izquierdo, A. 639
Izquierdo-Ridorsa, A. 411
Izumiya, N. 241

J

Jackson, K. W. 337
Jackson, M. B. 628 Or
Jackson, P. E. 307
Jackson, P. J. 338
Jackson, R. L. 592
Jackson, W. P. 654
Jackwerth, E. 110 Or
– 157 Or
– 175 Or
Jacob, K. 237
– 347
Jacob, P. 359 Or
Jacobs, W. 487
Jacobson, K. A. 234
Jäderlund, B. 432
Jaeger, A. 349
Jaeger, H. 347
Jänchen, D. E. 311
Jaeschke, W. 655
Jager, P. 491
Jagher, P. C. de 567
Jagoe, A. L. 569
Jain, A. 516
Jakab, E. 574
Jaklevic, J. M. 632
Jamali, F. 245
James, W. D. 512
Jamróz, M. 485
Janak, K. 406
Janata, J. 571
Janča, J. 209
– 489
Janicka, M. 407
Janse, T. A. H. M. 334
Janßen, E. 381 Or
Janssen, N. J. M. L. 210
Janzen, E. G. 219
Janzen, K.-P. 126 Or
Jarocewicz, N. 525
Jaroń, I. 496
Jaroniec, J. A. 633
Jaroniec, M. 203
– 633
Jarrett, H. W. 235
Javurek, M. 638
Jaya, S. 513
Jayson, G. G. 656
Jeansonne, N. 439
Jefferies, A. C. 656
Jehl, F. 349
Jekat, F. 198
Jelly, J. A. 593
Jemal, M. 244
Jeng-Shang Shih 212
Jenkins, A. A. 425
Jenkins, K. M. 231
Jenkins, R. W., Jr. 584
Jennings, W. 339
Jensen, D. 214
Jensen, D. E. 221
Jensen, F. P. 654
Jialong, G. 322
Jimenez, A. M. 299 Or
Jiménez Sánchez, J. C. 213
Jinbo, H. 237
Jinno, K. 223
– 306
– 342
Jönsson, J. Å. 428
Johannesen, R. B. 653
Johansson, B.-L. 522
– 652
Johansson, G. 417
Johlman, C. L. 201
Johns, R. B. 573
Johnson, C. C. 309
– 406
Johnson, D. C. 488
– 492
Johnson, D. M. 311
Johnson, E. D. 409
Johnson, J. H. 511
– 652
Johnson, K. S. 657
Johnson, M. 242
Johnson, R. S. 570
Jones, A. B. 246
Jones, A. D. 432
Jones, J. R. 629
Jones, J. S. 324
Jones, M. H. 647
Jones, P. 425
– 593
Jones, S. W. 591
Jones, V. K. 307
Jong, A. L. de 448
Jong, A. P. J. M. de 444
Jong, C. de 206
Joosten, H. M. L. J. 581
Joppich, M. 235
Joppich-Kuhn, R. 235
Jordan, J. W. 309
Jørgensen, P. L. 486
Jorgenson, J. W. 570
Josic, D. 591
Joubert, A. 220
Joubert, A. E. 150 Or
Jovelin, J. L. 221
Joyce, D. M. 227
Ju, J. J. 502
Juárez, M. 431
Jülich, E. 344
Juhász, G. 340
Jungreis, E. 512
Junk, G. A. 647
– 660
Jurs, P. C. 206
– 656
Just, B. 580

K

Kabanova, O. L. 320
Kacak, W. 578
Kägler, S. H. 484
Kafala, S. I. 579
Kafil, J. B. 218
– 528
Kagel, C. T. 509
Kahle, V. 406
Kahn, G. C. 594
Kai, M. 246
– 527
Kaiho, S.-I. 348
Kaiser, G. 32 Or
Kaiser, M. F. 233
Kaiser, R. E. 407
– 430
– 487
– 570
– 571
– 635
Kalcher, K. 181 Or
– 186 Or
– 316
– 644
Kalhorn, T. F. 240
Kalidas, K. 229
Kalinichenko, I. E. 305
Kalinichenko, N. B. 411
Kalinoski, H. T. 634
Kaljurand, M. 653
Kállay, M. 430
Kallmann, S. 321
Kalmykova, I. S. 412
Kalous, J. 222
Kamada, S. 235
Kamata, K. 514
Kamei, M. 441
Kamenev, A. I. 315
Kametani, F. 232
Kamino, M. 413
Kaminsky, A. Ya. 509
Kamla, G. J. 631
Kamson, O. F. 497
Kanamono, K. 420
Kane, M. D. 594
Kaneko, H. 346
– 524
Kanetsuna, A. 236
Kanne, R. 136 Or
Kanno, S. 657
Kapetanovic, I. M. 594
Kapila, S. 416
Kaplan, E. 500
Kaputskii, F. N. 635
Kar, A. 515
Karabanov, N. T. 332
– 487
– 488
Karapetyan, A. A. 318
Karasek, F. W. 313
Karayannis, M. I. 412
Karbainov, Yu. A. 489
Kareva, E. N. 321
Karger, B. L. 500
Karlberg, B. 408
Karlesky, D. L. 660
Karmen, A. 311
Károly, G. 420
Karpova, O. V. 501
Karst, F. 341
Karuppiah, N. 242
Kása, I. 430
Kasai, K.-I. 448
Kaschani, D. T. 650
Kashanipour, M. 493
Kashihira, N. 337
Kashina, L. I. 513
Kashiwabara, K. 211
Kashofer, F. 258 Or
Kashpor, V. N. 513
Kashyap, M. L. 592
Kasiura, K. 572
Kassir, Z. M. 496
Kasuya, Y. 528
Kataoka, H. 417
Kateman, G. 210
Kato, H. 499
Kato, K. 419
Kato, N. 208
Kato, T. 530
– 590
Kato, Y. 223
Katyal, M. 495
Katz, B. M. 568
Kauffman, R. E. 445
Kauffmann, J.-M. 415
Kauten, R. 442
Kavel, H. 191 Or
Kavetskii, V. N. 585
Kawabe, M. 503
Kawaguchi, S. 242
Kawai, R. 442
Kawamura, T. 503
Kawano, H. 424
Kawano, N. 644
Kawasaki, K. 429
Kaye, M. M. 327
Kealy, T. 436
Kechemir, D. 241
Keck, R. W. 441
Kehr, J. 240
– 466 Or
Kehr, P. F. 324
Keiding, K. 654
Keller, D. A. 343
Kelley, W. N. 578
Kellner, R. 258 Or
Kelly, T. J. 313
Kemp, G. J. 341
Kennedy, R. 660
Keren, Z. 592
Keresztes, P. 596
Kerkay, J. 340
– 520
Kerns, E. H. 526
Kersten, B. R. 633
Ketova, L. A. 494
Kettrup, A. 64 Or
– 252 Or
– 325
Keukens, H. J. 583
Keung, W. M. 442
Khabarova, G. P. 504
Khaleeluddin, K. 577
Khalil, G. I. 510
Khalil, M. 569
Khalil, M. M. 411
Khalil, S. N. 443
Khalilov, K. F. 205
Khalizova, V. A. 505
Khalizova, V. A.
– 509
Khan, A. S. 411
– 418
Kharbade, B. V. 329
Khattatov, V. U. 332
Kheawpintong, S. 322
Khilystova, A. D. 410
Khimenko, N. L. 208
Khitrov, L. M. 640
Khomutova, E. G. 510
Khopkar, S. M. 211
– 213
– 412
– 643
Khots, M. S. 506
Khromykh, N. N. 326
– 507
Khvorostukhina, N. A. 510
Kihara, S. 658
Kihira, K. 440
Kikuchi, T. 656
Kim, H.-Y. 524
Kimatama, K. 416
Kimberley, M. M. 341
Kimstach, V. A. 423
Kimura, J. 396 Or
Kinahan, J. J. 445
King, A. R. 348
King, E. E. 631
King, M. E. 437
King, M. M. 349
King, T. H. 230
Kingsley, J. R. 201
Kinoshita, C. M. 523
Kinoshita, E. 572
Kinoshita, H. 202
Kinoshita, T. 217
Kinsinger, J. A. 201
Kinzhofer, A. 636
Kip, J. 569
Kirby, J. F. 569
Kirichenko, V. E. 215
– 647
Kirita, K. 337
Kirk, K. L. 234
Kirkland, J. J. 310
Kirnerné-Kiss, A. 420
Kirret, O. 309
Kirsh, S. I. 487
– 488
Kish, P. P. 317
Kislova, I. V. 513
Kitada, Y. 229
Kitagawa, M. 501
Kitajima, Y. 234
Kitamura, H. 427
Kitano, S. 413
Klaassen, C. D. 447
Kleemeier, T. 307
Klein, A. J. 655
Klein, D. E. 584
Klein, P. D. 525
Klenk, H. 105 Or
Klepping, J. 238
Klinkner, R. 328
Klockow, D. 57 Or
– 359 Or
Klompmakers, A. A. 592
Klüssendorf, B. 404
Knapp, K. 528
Knausz, D. 596
Knedel, M. 237
Knight, R. W. 588
Knöppel, H. 632
Knoll, J. E. 309
Knoll, R. 245
Knopf, S. 528
Knorr, F. J. 632
Knowles, M. E. 227

Knust-Kron, B. 242
Kobal', G. I. 505
Kobayashi, E. 211
Kobayashi, J. 343
Kobayashi, Y. 238
– 305
Kobos, R. K. 645
Kobrehel, K. 431
Koch, K. H. 88 Or
– 403
Koch, K.-P. 544 Or
Koch, W. F. 646
Kocjan, R. 307
Kocsis, B. 441
Koda, K. 242
Kölle, E. U. 244
– 443
König, H. 426
Koenig, J. 590
Koenig, J. L. 575
König, K.-H. 621 Or
König, W. A. 405
– 517
– 526
Koerner, C. A. 581
Körner, J. 593
Köwitsch, A. 336
Kogan, L. M. 580
Kogan, L. O. 206
Kohlmeyer, M. 481
Koifman, M. D. 504
Kojima, I. 305
– 510
Kojima, T. 416
Kojnarska, A. 278 Or
Kok, W. T. 438
Kokk, Kh. Yu. 429
– 511
Kok. R. M. 444
Kolarovic, L. 439
Kolber, Z. S. 567
Kol'chinskii, A. G. 645
Kolditz, L. 511
Kolikova, N. N. 509
Kolobow, T. 310
Kolokolov, B. N. 221
Kolomiets, L. L. 643
Kolonina, L. N. 502
Kolotyrkina, I. Ya. 640
Komárek, K. 500
Komarova, N. I. 422
Komleva, A. A. 520
Konda, K. 591
Kononova, R. V. 577
Kontrohr, T. 441
Kook, K. A. 244
Koopman, W. J. 241
Korany, M. A. 435
Korchagina, O. A. 502
Korgova, E. 645
Korhonen, I. O. O. 499
Kormann, K. 482
Korostyshevskii, I. Z. 213
Korsakova, N. V. 503
Korte, F. 377 Or
Korte, K. 439
Koryta, J. 636
Koscielniak, P. 210
Kościelski, T. 312
– 418
Koshevnik, M. A. 570
Koshiishi, I. 646
Koshima, H. 490
Koshino, Y. 428
Kosichkin, Yu. V. 332
Kostenko, V. G. 415
Kostromin, A. I. 207
– 329
– 497
Kotake, T. 413
Kotaki, H. 443
Kotani, N. 420
Kotov, S. V. 209
Koupparis, M. A. 208
– 229
– 515
Kovacs, M. I. P. 580
Kovács, S. 230
Kovalev, I. D. 404
Kovár, J. 580
Kovar, K.-A. 565
Kovenya, A. V. 658
Kowalski, B. R. 572
Kowalski, W. J. 312
Koyama, F. 441
Kozenkova, N. M. 327
Kozhevnikova, I. A. 494
Kozhukhar', A. N. 421
Kozlova, E. L. 422
Kozlova, N. V. 422
Kozłowski, E. 547 Or
Kozyreva, G. V. 410
Kraak, J. C. 569
– 634
Kräutler, B. 572
Kraft, G. 630
Kraft, H. 443
Kragten, J. 567
Kramer, J. B. 441
Kramer, J. K. G. 346
– 440
Kramer, M. 579
Kramps, J. A. 519
Kranz, T. 349
Krasiejko, M. 411
Krasin'kova, M. V. 504
Krasnov, A. I. 322
Krasnov, N. V. 200
Krasnyuk, I. I. 233
Krauss, F. 530
Kravchenko, T. B. 642
Kremer-Birnbaum, M. 441
Krishna Murthy, K. 319
Krishnamurthy, M. N. 229
Krivan, V. 41 Or
– 597 Or
– 637
Kříž, J. 217
– 405
– 500
Kronbach, T. 244
Kroschel, D. M. 246
Krtil, J. 653
Krug, F. J. 408
Kruh, J. 243
Krull, I. S. 432
– 487
– 488
– 511
– 641
Krull, U. J. 587
Krupčik, J. 206
Krylov, A. I. 406
– 500
Krylov, V. A. 504
Krylova, A. N. 582
Krýsl, S. 312
Kubaszewski, E. 213
– 315
– 501
Kubiak, F. M. 342
Kublik, Z. 222
Kubo, Y. 311
Kubota, M. 305
Kubota, Y. 438
Kuča, L. 317
– 425
Kuchava, G. P. 320
Kucherov, S. S. 508
Kucheryaeva, V. V. 317
Kuchnicki, T. C. 314
Kuck, M. 449 Or
Kudermann, G. 421
Kudrin, A. N. 233
Kudryasheva, E. G. 505
Kudryavtsev, G. V. 490
Küllik, E. 653
Küllmer, G. 631
Kujik, F. J. G. M. van 592
Kukorelli, T. 340
Kuldvere, A. 331
Kulkarni, A. V. 648
Kulumbegashvili, V. A. 422
Kulys, J. J. 233
Kumamaru, T. 421
– 495
Kumar, A. 410
– 495
Kumar, P. 650
Kumar, R. 493
Kumari, P. L. 228
Kunimura, M. 224
Kuntze, H. 481
Kun-Yuan Liu 222
Kunz, C. 344
Kupferberg, H. J. 594
Kuramoto, T. 440
Kurbatova, V. I. 423
Kurepa, G. N. 494
Kuriacose, J. C. 583
Kuribayashi, S. 445
Kurnoskin, A. V. 223
Kuroda, N. 448
– 530
Kuroki, S. 440
Kuroki, Y. 346
Kuromizu, K. 241
Kurosawa, N. 445
Kurskii, A. N. 510
Kurtev, B. J. 407
Kurz, U. P. 437
Kurzawa, Z. 213
Kusano, S. 238
Kuß, H.-M. 83 Or
Kuteinikov, A. F. 325
Kuwabara, M. 440
Kuwaki, T. 512
Kuwamoto, T. 307
– 683 Or
Kuwana, T. 314
Kuwata, S. 499
Kuz'min, N. M. 490
Kuznecov, V. 428
Kuznetsov, L. B. 321
– 502
Kuznetsov, V. V. 215
– 327
– 409
– 416
– 502
Kvalheim, O. M. 210
– 220
Kyun, V. A. 510

L

Laar, G. L. M. van de 594
Labbe, P. 241
Labuda, Ya. 645
Lacort, G. 337
Lacroix, B. 433
Ladányi, L. 230
Lafleur, A. L. 595
Lafosse, M. 405
– 658
Lagana, A. 592
Laios, I. 522
Laker, M. F. 436
Lakiza, Z. V. 200
Lakszner, K. 570
Lalancette, J. M. 660
Lam, S. 311
Lambert, J. L. 430
Lambert, W. E. 198
Lammers, N. 634
Lampert, F. 476 Or
Lanauze, J. 631
Lancker, M. van 596
Landi, S. 521
Landy, J. S. 203
Lange, C. 506
Langebartels, C. 587
Langenhove, H. van 331
Langford, G. 525
Langseth, W. 267 Or
Langseth-Manrique, K. 244
Lanin, V. S. 502
Lankelma, J. 444
Lanouette, M. 338
Lapitskaya, E. V. 503
Lappas, N. T. 348
Laptev, V. I. 416
Larin, N. V. 404
Larsen, R. P. 513
Larson, A. A. 436
Larson, J. R. 576
Larson, P. A. 228
Larsson, B. 439
Larsson, M. 635
Laserna, J. J. 320
– 646
Last, T. A. 218
– 528
Latek, Z. 485
Later, D. W. 654
Lau, O. W. 497
– 645
Lau, P. 345
Lau-Cam, C. A. 516
Laude, D. A., Jr. 201
Lauer, H. H. 523
Laufen, H. 527
Laurendeau, N. M. 219
Laurent, P. 652
Laurinavicius, V.-S. A. 233
Lautamo, R. 339
Lautenschläger, W. 485
Lauth, M. 306
Laval-Martin, D. L. 336
Law, B. 514
Lawrence, J. F. 225
– 582
Lawrence, L. H. 564
Lawson, J. A. 446
Layrisse, M. 340
Lazarev, V. A. 504
Lazarev, V. G. 640
Lazareva, T. G. 635
Lazaris, A. Ya. 507
Lázaro, F. 492
– 580
Lazeeva, G. S. 335
Le, X.-ch. 644
Leach, S. C. 636
Leasure, C. S. 510
Leavens, W. J. 593
Leavitt, J. A. 503
Lebedeva, M. I. 314
Le Bihan, A. 567
Leby-Favatiert, F. 243
Leclerc, D. 575
Leclercq, P. A. 313
Leclerq, P. A. 224
Lee, C. 231
Lee, D. F. 339
Lee, E. D. 635
Lee, H. K. 641
Lee, M. 240
Lee, M. L. 204
– 570
Lee, M. L.
– 635
Lee, T. L. 444
Lee, Y. K. 325
Lee, Y. W. 339
Leenheer, A. P. de 235
– 445
Lefebvre, Y. 660
Lefevere, M. F. 235
Legin, A. V. 317
Legler, G. 344
Legrand, M. 577
Legrand, P. 485
Lehman, L. D. 447
Lehmann, G. 198
– 225
Lehmann, R. 508
Lehtonen, P. 430
Leisztner, L. 571
Leja, B. 652
Lemar, M. 246
Lemus Gallego, J. M. 213
Lena, L. 220
Lendero, L. 335
Lengyel, J. 653
Lenzen, S. 314
León, L. E. 414
Leonard, M. A. 499
Léon-González, M. J. 413
Leont'eva, L. B. 219
Lepri, L. 218
Lequeu, B. 238
Leroy, P. 233
Lesgards, G. 582
Lesnov, A. E. 331
Lesser, J. H. 586
Lester, D. C. 238
Letham, D. S. 440
Letokhov, V. S. 510
Leupold, C. 442
Levi, Y. 405
Levillain, P. 336
Levin, M. G. 326
LeVine III, H. 438
Levitskaya, S. A. 501
Levitskii, A. P. 577
Levy, E. J. 303
Lexa, J. 413
Leyden, D. E. 574
L'Heureux, L. 584
Li, F. 596
Li, J. 203
Li, R. 585
Liberato, D. J. 635
Libkowski, J. 418
Lichti, D. A. 590
Liebman, S. A. 303
Liebscher, G. 515
– 576
Lieser, K. H. 558 Or
– 618 Or
Ligon, W. V., Jr. 626 Or
Lillig, B. 585
Lim, C. K. 596
Lima, J. L. F. C. 408
– 636
– 659
Limasset, J. E. 426
Lin, J.-L. 315
Lin, M. 343
Lin, S. M. 520
Lin, T. 649
Linares, P. 212
– 645
Lindberg, I. 646
Lindberg, W. 486
Linde, S. 525
Lindemann, B. 572
– 579
Linden, A. van der 232

Linden, W. E. van der 491
Linders, C. R. 415
– 428
Lindgren, G. 432
Lindner, E. 408
Lindner, H. 524
Lin-Mei Tsay 212
Linnoila, M. 234
Linow, F. 431
Linscheid, M. 530
Lipinski, J. 338
Liscovitch, M. 436
Liska, S. K. 340
– 520
Littlejohn, D. 225
– 305
– 403
– 567
– 589
Liu, C.-Y. 553 Or
Liu, X. D. 648
Liu, Y.-W. 574
Liu, Z. 649
Liu Zaiyou 334
Llavona, R. 633
Llobat-Estelles, M. 214
Lloyd, M. J. B. 486
Lobanov, F. I. 498
Locatelli, C. 521
Lochmüller, C. H. 426
Lockwood, P. A. 224
Locniskar, A. 593
Lodge, B. A. 232
Löbel, J. 563
Löw, M. 417
Loginova, L. P. 208
– 211
Logrieco, A. 525
Lohmann, D. 204
Lohmann, W. 473 Or
– 476 Or
Lokshina, G. A. 575
Loktyushkina, M. B. 222
Long, G. R. 566
Long, W. J. 515
Longhi, P. 409
Longhi, R. 345
López, M. H. 655
López Benet, F. J. 315
López García, I. 513
López-Garzón, F. J. 311
Lopez Nunez, R. 644
Loppinet, V. 507
Lorenc, R. S. 525
Lorenz, W. 377 Or
Losada, J. 300 Or
Loskutova, I. M. 419
Lotter, L. 338
Lottspeich, F. 399
Lovett, R. J. 414
Lowe, T. 580
Lu, K. 246
Luca, C. 411
Luckas, B. 470 Or
Ludden, Th. M. 596
Ludke, C. 589
Ludlow, J. W. 520
Ludwig-Koehn, H. 440
Lüderwald, I. 290 Or
– 399
Luengo, J. M. 231
Luk, S. F. 228
Lukashenok, E. V. 577
Lukaszewski, Z. 212
Lukaszkiewicz, J. 525
Luke, D. R. 528
Lukosz, W. 436
Lulla, H. 229
Lund, W. 636
Lundanes, E. 221
Lundberg, E. 566
– 646
Lundgren, C. 636
Lundin, A. 233
Lundström, I. 523
Lundström, K. 309
Lunskii, M. Kh. 487
Luo, D. B. 488
Luque de Castro, M. D. 209
– 212
– 491
– 492
– 494
– 580
– 645
Lu Zhi-ren 422
Luzhkov, Yu. M. 209
Lyle, S. J. 643
Lyon, P. A. 327
Lytle, F. E. 219
Lyubimova, L. N. 509
Lyuta, N. N. 213

M

Maarse, H. 430
Maas, M. J. 227
MacDonald, R. W. 330
Macek, J. 235
Machado, A. A. S. C. 408
– 636
– 659
MacKenzie, S. L. 523
MacLeod, J. K. 440
MacNeil, M. L. 590
Made Gowda, N. M. 321
Madej. A. 493
Madiyalakan, R. 242
Madson, M. A. 523
Mächler, M. 544 Or
Maeda, M. 435
– 448
Maeder, M. 210
– 638
Magalhaes, A. M. T. 574
Magarian, R. A. 349
Magnani, M. 234
Magnus, B. 574
Mahajan, G. R. 412
Mahato, S. B. 433
Maher, W. 659
Maingault, P. 652
Maingonnat, C. 346
Maiorino, R. M. 448
Maitra, S. K. 433
Majcherczyk, C. 223
Majmoud, J. S. 232
Makarik, G. T. 510
Makarov, N. V. 498
Makino, K. 240
– 308
Makita, M. 417
Makrlík, E. 211
Malakhov, V. N. 520
Malik, M. S. 418
Malikin, G. 311
Malinowska, E. 572
Mallinger, A. G. 528
Mallinson III, E. T. 226
Malofeeva, G. I. 411
– 513
Malspeis, L. 518
Maluf, K. C. 340
Malyarova, M. A. 582
Malygina, L. S. 504
Malykh, V. D. 505
Malysheva, L. F. 585
Malyutina, T. M. 318
Mamaeva, A. V. 488
Man, E. H. 235
Man, R. Y.K. 440
Manahan, S. E. 416
Manchanda, V. K. 411
Manchon, M. 348
Mandava, N. B. 338
Mandaval, N. B. 587
Manders, W. F. 653
Mandrou, B. 516
Mandry, R. 631
Mangia, A. 226
– 405
Mangold, D. J. 596
Maniadaki, M. M. 412
Manjón, A. 243
Mann, C. K. 230
Mansfield, K. F. 491
Mar, T. 580
Marafioti, R. A. 585
Marassi, R. 207
March, J. G. 425
– 497
Marchelli, R. 417
Marchevsky, E. 641
Marco, J. 234
Marco, L. 211
– 318
Marcus, Y. 482
– 565
Margulis, V. B. 331
– 409
Marien, J. 417
Marinescu, D. M. 415
Marinichev, A. N. 406
Marinov, M. I. 561 Or
Marinsky, J. A. 482
Maris, F. A. 308
– 587
Mark, H. 567
Markides, K. E. 204
– 570
– 635
Markley, B. 430
Markova, E. I. 416
Marko-Varga, G. 417
– 428
Markowicz, A. 306
Marlett, J. A. 523
Marnett, L. J. 233
Marov, I. N. 411
Marquard, F. 486
Marr, I. L. 402
Mars, C. 634
Marschke, C. K. 238
Marsden, H. S. 232
Marshall, A. G. 201
– 514
Marshall, J. 403
– 567
Martens, J. 298 Or
– 518
– 559 Or
Martin, B. A. 344
Martin, C. R. 595
Martin, J. A. 507
Martin, J. J. 427
Martin, L. E. 526
Martinez, C. 171 Or
– 335
– 427
– 495
– 642
– 648
Martinez, E. E. 227
Martínez Calatayud, J. 493
Martínez-Castro, I. 431
Martinez-Jimenez, P. 317
Martínez-Vidal, J. L. 413
Martín-Penella, M. 214
Martire, D. E. 203
Marty, C. 596
Marty-Garrec, M. 431
Martynova, N. F. 510
Marui, Y. 242
Marzo, A. 526
Masaki, T. 343
Mascini, M. 436
– 587
Masclet, P. 426
Mashford, M. L. 594
Mashinskaya, S. Ya. 497
Mashkovich, L. A. 325
Maskarinec, M. P. 339
Maskell, W. C. 425
Mas'ko, A. N. 209
Maslov, L. P. 496
Masood Alam 330
Masoom, M. 346
– 441
– 496
Maspoch, S. 496
Massart, D. L. 228
– 231
– 446
– 447
Massey, R. C. 227
Massil, S. E. 586
Masuda, Y. 638
Masujima, T. 343
Masumoto, K. 421
Matakova, R. N. 494
Mathieu, F. 596
Mathur, V. K. 424
Matis, K. A. 506
Matissek, R. 293 Or
Matsaberidze, T. G. 422
Matsubara, I. 521
Matsubara, K. 424
Matsubara, M. 318
– 413
Matsuda, K. 503
– 530
Matsuda, T. 223
– 424
– 574
Matsui, M. 658
Matsumara, M. 573
Matsumoto, K. 340
Matsumoto, M. 571
Matsunaga, R. 439
Matsuno, Y. 321
Matsuo, H. 495
Matsuo, J. 421
Matsuo, T. 638
Matsushima, Y. 230
– 515
Matsushita, H. 660
Matsushita, K. 241
Matta, K. L. 242
Matthews, B. 492
Matthews, H. R. 343
Matusiewicz, H. 324
Matveets, I. A. 212
– 643
Matveets, M. A. 212
Matysik, G. 591
– 654
Maurer, W. 73 Or
Mawhinney, T. P. 345
– 523
Mawley, A. 493
May, H. E. 231
May, T. W. 341
Maybaum, J. 441
Mayer, H. 20 Or
Mayer, L. W. 523
Mayfield, H. T. 580
Mazzola, G. 345
– 529
Mazzoni, A. 245
Mazzucotelli, A. 330
McAlpine, J. B. 517
McCann, J. F. 341
McCarthy, P. T. 525
McClintock, S. A. 419
– 434
McCluskey, P. L. 435
McCourt, P. J. 336
McCown, S. M. 633
– 634
McCracken, M. S. 592
McCrery, D. A. 201
McCrory-Joy, C. 650
McCutcheon, J. R. 341
McDonell, E. 336
McDowall, R. D. 593
McDowell, W. L. 656
McEvoy-Bowe, E. 207
McGaw, B. A. 225
McGee, W. W. 328
McGill, A. S. 227
McGovren, J. P. 245
McGown, L. B. 588
McGuire, J. M. 500
McHardy, W. J. 578
McIver, R. T, Jr. 201
McLafferts, F. W. 201
McLafferty, F. W. 568
McLean, A. J. 526
– 594
McLearie, J. 232
McLeod, C. W. 646
McLuckey, S. A. 329
McManigill, D. 523
McMinn, D. G. 508
McNair, H. M. 309
McNerney, C. A. 592
McNicol, J. W. 485
McWeeny, D. J. 227
Medicus, G. 667 Or
Medina-Escriche, J. 214
– 315
Medyantseva, E. P. 510
Meek, J. L. 216
Meffin, P. J. 243
Mehlin, S. 237
Mehran, M. F. 339
Mehta, A. C. 348
Meier, M. 485
Meier, U. T. 244
Meinard, C. 339
Meisch, H.-U. 344
Meites, L. 222
– 409
– 638
Meixner, F. X. 655
Melchor, N. 216
Mell, L. D., Jr. 348
Meloan, C. E. 430
Meloun, M. 638
Memoli, A. 587
Men, L.-C. 328
Ménard, H. 660
Men'shikov, V. I. 403
Mentasti, E. 512
– 574
– 644
Mentges-Hettkamp, M. 344
Menzel, D. B. 343
Merdjan, H. 446
Merin, U. 226
Merlot, G. 433
Mertz, D. P. 524
Merz, W. 449 Or
Meshcheryakova, T. Yu. 335
Meshkovskii, I. K. 332
Messerschmidt, J. 520
Metral, C. J. 404
Metzger, E. 520

Metzger, J. 220
Meuris, S. 438
Mey, J. de 591
Meyer, C. J. 210
Meyer, H. D. 347
Meyer, U. A. 244
Mezaraup, G. 320
Mezhirov, M. S. 320
Miceli, J. N. 445
Michel, C. 594
Michel, M. 582
Michel, R. G. 404
Michotte, Y. 234
– 447
Midgley, D. 572
Miediokritskaja, A. 418
Mifune, M. 236
Mikhailov, V. A. 424
Mikhailova, I. A. 499
Mikkelsen, S. R. 207
Milana, M. R. 342
Milazzo, M. 306
Milio, C. 437
Millan, I. 649
Miller, J. 485
Miller, J. N. 435
Miller, K. G. 491
Miller, L. G. 224
Miller, R. H. 227
Miller, R. L. 594
Miller, T. G. 223
Miller-Ihli, N. J. 305
Mills, A. 570
Mills, D. G. 651
Milner, D. F. 584
Miloshova, M. S. 316
Minagawa, K. 528
Minamiura, N. 530
Minck, R. 349
Mine, K. 234
Miners, J. O. 445
Mingshi, S. 204
Minton, A. P. 519
Mir, J. M. 171 Or
– 335
– 427
– 495
– 642
Mirenskaya, I. I. 306
Mirzoyan, F. V. 318
Mishchenko, V. T. 423
Mishra, A. K. 515
– 517
Miskiewicz, M. A. 582
Misra, S. 311
Mitchell, J. M. 348
Mitchell, J. R. 237
Mitchell, J. W. 650
Mitchell, M. C. 578
Mitchell, P. G. 420
Mitina, M. F. 312
Mitsana-Papazoglou, A. 314
– 517
Mitsui, T. 447
Mitsumatsu, M. 510
Mitsuzawa, S. 655
Miura, T. 246
Miwa, H. 226
Miwa, M. 571
Miyagawa, S. 424
Miyagawa, Y. 424
Miyagi, N. 443
Miyaguchi, K. 308
– 436
– 591
Miyai, K. 242
Miyamoto, A. 420
Miyata, H. 576
Miyauchi, K. 530
Miyauchi, T. 590
Miyazaki, A. 645
Miyazaki, K.-i 236
Mizobuchi, M. 229
Mizoguvhi, T. 439
Mizuno, K. 348
Mizutani, F. 217
Moats, W. A. 582
Mock, D. M. 525
Möckel, H. J. 365 Or
Moeremans, M. 591
Moerloose, P. de 244
– 433
– 516
Moffat, A. C. 218
– 514
Moffatt, E. J. 590
Moffett, K. S. 227
Mogileva, M. G. 422
Mogilevskaya, M. P. 580
Mohamed, M. E. 516
Mohammed, A.-H. A.-K. 220
Mohri, Z. 592
Mo-Hsiung Yang 272 Or
Mok, W. M. 659
Mokeeva, R. N. 574
Mokhov, A. A. 219
Molokhia, A. M. 229
Momburg, R. 652
Monchamp, P. A. 595
Monien, H. 15 Or
Monova, J. 658
Montagu, M. 336
Montaudo, G. 508
Montes, R. 320
– 646
Monzani, V. 527
Moody, G. J. 314
– 573
Moore, C. J. 234
Moore, D. J. 246
Morabito, J. 310
Morales, A. 214
Morelli, B. 415
Moreno, M. R.de 345
Moreno-Castilla, C. 311
Morettini, L. 512
Morf, W. E. 571
Morgan, D. J. 325
Morgan, E. D. 347
Morgan, S. L. 345
Morges, W. 345
Mori, I. 413
Mori, N. 414
Mori, S. 574
Mori, T. 530
Mori, U. 586
Mori, Y. 343
– 660
Morikawa, T. 659
Moril, K. 439
Morishige, K. 219
– 321
Morishita, F. 416
Morita, I. 343
Morita, K. 413
Morita, M. 496
Morita, S. 420
– 423
Moriya, F. 308
Mørland, J. 242
Morooka, R. 420
– 503
Morozova, N. B. 320
Morrell, S. G. 655
Morris, B. W. 341
Morris, G. S. 239
Morris, N. M. 342
Morrison, B. E. 633
Morrison, B. E.
– 634
Morrissey, M. A. 635
Morse, R. A. 585
Mosbach, K. 436
Moschetto, Y. 435
Moschidis, M. C. 346
– 524
Moscone, D. 436
Mosher, R. A. 207
Moskvitinova, T. B. 331
Mostafa, M. A. 211
Motomizu, S. 420
– 659
Mottola, H. A. 485
Mounce, R. P. 657
Mounie, J. 581
Mourier, P. 406
– 634
Mourier, P. A. 216
Mouvier, G. 426
Mowthorpe, D. J. 345
Msimanga, H. 218
Muccio, D. D. 440
Mueller, B. J. 414
Müller, P. H. 435
Mueller, R. 204
Müller-Platz, C. M. 344
Muffler, H. 449 Or
Muir, K. T. 244
Mukhovikova, N. P. 403
Mukomel', V. L. 423
Mulholland, M. 228
Mullen, S. L. 201
Mullen, W. H. 346
Munari, F. 221
Munemori, M. 429
Munshi, T. K. 410
Munson, B. 575
Munson, T. O. 508
Muraca, M. 347
Murakami, Y. 592
Murakami-Murofushi, K. 237
Murakita, H. 416
Muralidharan, D. 418
Murao, T. 203
Murata, A. 644
Murata, K. 316
Murataliev, M. B. 529
Murayama, H. 217
Murayama, W. 311
Murel, A. 309
Murinov, Yu. I. 513
Muroi, M. 428
Murray, J. 227
Murray, R. A. 636
Murray, R. W. 636
Murthy, M. R. V. 635
Murty, P. S. 650
Muruta, K. 237
Murzina, O. I. 323
Musaick, K. 175 Or
Musha, K. 222
Mushak, P. 521
Mushtakova, S. P. 315
– 325
– 640
Mussini, T. 409
Mustafa, I. 315
Muto, G. 217
– 418
Mutschler, E. 443
– 528
Mutus, B. 242
Myakisheva, E. A. 509
Myasoedova, G. V. 320
Mychkovsky, I. 310
Myojin, T. 234

N

Nabi, A. 436
Nabi Rahni, M. A. 590
Nadezhdinskii, A. I. 332
Nagahiro, T. 315
Nagai, T. 424
– 574
Nagaoka, M. 241
Nagaosa, Y. 317
Nagase, K. 596
Nagashima, H. 526
Nagashima, K. 332
Nagata, C. 573
Nagata, Y. 230
– 515
Nagel, G. T. 239
Nagel, K. 660
Nagy, G. 340
Nairn, J. G. 231
Naito, H. 577
Naito, S. 660
Nakagawa, G. 640
Nakagawa, K. 592
Nakagawa, T. 246
Nakagiri, T. 323
Nakai, Y. 424
Nakajima, K. 592
Nakamoto, M. 427
Nakamura, E. 654
Nakamura, H. 644
Nakamura, K. 237
Nakamura, M. 439
Nakamura, S. 305
Nakanishi, M. 208
Nakano, K. 208
Nakayama, K. 514
Nakayama, M. 539 Or
Nakazawa, H. 229
Nambara, T. 415
– 596
Namiki, H. 654
Namvrina, E. G. 318
Napoli, J. L. 525
Narasimha, R. 418
Narasimhachari, N. 437
Narayanan, P. 211
Nardillo, A. M. 221
Narick, C. N. 213
Narita, K. 420
– 424
Narsimha, R. 652
Naruse, H. 235
Nastasi, M. J. C. 425
Natarajan, P. R. 411
– 412
– 650
Nath, P. 424
Naumann, K. 50 Or
Navarro, R. A. 579
Navas, M. J. 299 Or
Navin, T. R. 527
Nawa, H. 632
Nazarenko, A. Yu. 420
Nazarenko, I. I. 513
Neale, M. E. 654
Nebol'sina, L. A. 521
Nechitailov, A. A. 504
Nedelkovits, J. 430
Neelakantan, L. 511
Neidhart, B. 129 Or
– 403
– 437
Neihof, R. A. 524
Nelis, H. J. C. F. 235
Nelson, S. D. 240
Nemets, S. M. 658
Nemets, V. M. 511
Nemra, G. 318
Nesterenko, N. I. 312
Neu, D. 578
Neu, H.-J. 449 Or
Neuburger, G. G. 492
Neue, U. 511
Neuhäuser, M. 290 Or
Nevejans, F. 306
Nevell, T. G. 327
Newhart, A. 511
Newman, A. P. 337
Newman, R. A. 246
Ng, K. C. 203
Ng, K. T. 593
Ng, L.-K. 651
Nguyen, T. 318
Ni, Y.-S. 437
Ni, Z.-m. 644
Nicholsen, G. J. 313
Nichugovskii, G. F. 651
Nickolaisen, S. L. 566
Nicolas, A. 233
Nicolas, J.-C. 524
Nicoletti, F. 216
Nicolin, A. 245
Nieder, H. 481
Nieder, M. 347
Niederbudde, E.-A. 337
Nieman, T. A. 581
Niemann, A. 446
Niemczyk, T. M. 566
Nieminen, E. 655
Nierenberg, D. W. 238
Nikaidoh, A. 429
Nikelly, J. G. 482
Nikitin, Yu. S. 410
Nikolaev, V. I. 200
Nikolaeva, E. R. 499
Nikolau, B. J. 335
Nikol'skaya, E. B. 216
Nikulin, A. G. 422
Nimura, N. 217
Ninomiya, S. 642
Nioka, M. 445
Nisamaneepong, W. 203
Nishi, A. 423
Nishida, M. 208
Nishikawa, H. 334
– 429
Nishikawa, T. 329
Nishikawa, Y. 219
Nishino, H. 436
Nishioka, Y. A. 584
Nishiyama, H. 325
Nitta, Y. 421
Nitzche, V. 511
Niwa, H. 424
– 443
Niyomura, M. 230
– 515
Noel, M. 207
Noggle, F. T., Jr. 519
Noguchi, K. 203
– 240
– 448
Noguchi, M. 243
Noguchi, T. 577
Nohta, H. 240
– 448
Noller, B. N. 200
Nolte, J. 20 Or
Nomeir, A. A. 349
Nomura, S. 421
Nomura, T. 642
Nondek, L. 569
Nonobe, M. 241
Nonova, D. C. 648
Nooitgedacht, F. 486
Nooteboom, R. J. 227
Norin, R. C. 515
Norlander, B. 447
Norval, E. 642

Novak, A. J. 348
Novak, F. P. 328
Novič, M. 209
Novikov, A. F. 332
Novotny, M. 486
– 487
– 634
Nozaki, T. 238
Nürnberg, H. W. 426
Nugent, E. A. 437
Numazawa, M. 241
Núñez, A. J. 430
Nunogaki, Y. 311
Nustrova, V. S. 423
Nyarady, S. A. 313
Nyrén, P. 233
Nyström, I. 652

O

Obach, R. 595
Obbens, H. 333
– 335
Obermann, P. 481
Obol'nikova, E. A. 580
Obrazovskii, E. G. 648
Obrenski, R. J. 485
Obrezkov, O. N. 405
O'Brien, M. C. 330
Obukhovskii, Ya. A. 306
Ocak, A. 342
O'Conner, D. J. 569
Odell, C. 345
O'Donell, J. P. 443
Oehlmann, G. 197
Öhman, J. 486
Oehme, F. 571
Oehme, M. 632
Oellerich, M. 446
Oesch, U. 571
Oganesyan, L. B. 318
– 503
Ogarevam, M. B. 318
Ogasawara, I. 329
Ogata, H. 632
Ogawa, H. 322
Ogawa, M. 530
Ogawa, N. 405
Ogawa, T. 224
Ogden, M. W. 309
Oggenfuss, P. 571
O'Grady, C. E. 402
Ogura, Y. 241
O'Hara, D. 332
Ohashi, S. 240
– 323
– 442
– 645
O'Haver, T. C. 305
Ohi, K. 234
Ohishi, K. 417
Ohkura, Y. 240
– 246
– 439
– 448
– 527
– 530
Ohls, K. 88 Or
– 403
Ohnishi, H. 429
Ohno, N. 484
– 518
Ohrbach, K.-H. 325
Ohshita, K. 640
Ohsuka, S. 571
Ohta, J. 237
Ohta, K. 427
Ohtaki, S. 592
Ohtani, M. 571
Ohyagi, Y. 329
Ohzeki, K. 327
Ohzeki, K.
– 646
Oka, K. 243
Okada, S. 571
Okada, T. 307
– 572
– 683 Or
Okamoto, Y. 203
– 495
Okazaki, K. 236
Okazaki, S. 512
Oki, M. 629
Okitsu, T. 657
Okumura, I. 321
Okutani, T. 512
Okuyama, T. 236
Oldeweme, J. 57 Or
Olieman, C. 581
Olivares, J. A. 568
Oliveira, G. N. de 522
Olivera, N. G. de 590
Olofsson, B. R. 326
Olsina, R. 641
Olson, K. L. 511
– 653
Olsson, B. 417
Omenetto, N. 484
O'Neal, J. S. 567
Onion, L. J. 224
Onishchenko, T. A. 513
Onishchenko, Yu. K. 513
Onishi, H. 490
Ono, A. 647
Onoda, M. 659
Oosuka, T. 306
Ordidge, M. R. 224
O'Reilly, A. M. 659
Oreškov, T. 658
Orii, S. 415
O'Riordan, D. M. T. 636
Orme, P. 328
Orren, D. K. 521
Ortuño, J. A. 643
Osborn, J. A. 572
Osborne, B. G. 341
Oshima, M. 512
– 659
Osipov, N. N. 658
Osjord, E. H. 325
Oskotskaya, E. R. 212
– 409
Osman, A. 519
Osman, M. A. 245
Osoyama, M. 417
Osterloh, J. 590
Osteryoung, J. 489
– 636
Ostroumov, E. A. 422
Otomo, M. 322
Otruba, V. 588
Otsuka, K. 311
– 342
Ott, K.-H. 222
Ottaway, B. J. 567
Ottaway, J. M. 225
– 305
– 321
– 340
– 403
– 567
– 589
Otte, H. 426
Otten, A. 473 Or
Otto, M. 639
Ouchi, M. 503
Ovechkin, A. B. 501
Ovsyanko, L. M. 327
Owada, E. 445
Owen, A. J. 583
Oyama, K. 238
Ozaki, H. 240
– 311
Ozawa, A. 237

P

Paama, L. A. 429
– 511
Paanakker, J. E. 594
Paar, W. D. 444
Pablos, F. de 493
Pacáková, V. 224
– 417
Pacey, G. E. 491
Pachadzhanov, D. N. 414
Paiella, R. 224
Pailler, F. M. 581
Paillet, M. 446
Pal, S. B. 630
Pal, T. 316
Palacios, J. L. 657
Palági, S. 513
Palamareva, M. D. 407
Pallud, P. 348
Palmer, G. 442
Palmisano, F. 445
Palmowska-Koś, B. 411
Palrecha, M. M. 648
Palvadre, R. 307
Pan, J.-M. 502
Pandey, L. P. 215
Pangarova, T. 336
Pank, M. 309
Pankow, J. F. 407
Pannell, K. H. 216
Pantaler, R. P. 319
– 423
Pantel, S. 102 Or
Panten, U. 314
Papadopoulos, C. G. 646
Papadoyannis, I. N. 208
– 501
– 506
Papanastasiou, A. 495
Papanastasiou-Diamandi, A. 241
Papoff, P. 638
Parashar, D. C. 656
Parcher, J. F. 311
Parczewski, A. 210
Pardo, R. 513
– 643
Pardue, H. L. 491
– 522
Parisis, N. E. 631
Park, B. K. 525
Park, S. W. 238
Park, Y. H. 444
Parkin, J. E. 415
Parkinson, I. S. 436
Parks, E. J. 653
Parks, O. W. 231
Paronyan, R. V. 508
Parrot, J. F. 509
Pascali, R. 647
Paschal, D. C. 341
Paschold, B. 20 Or
Paściak, J. 507
Pascovici, G. 580
Pascual Martí, M. C. 493
Pasechnova, R. A. 219
Pashkevich, K. I. 215
– 647
Pasquale, G. di 224
Pasquali, M. 638
Passey, R. B. 340
Pastor, R.-F. 431
Pastorelli, N. 654
Pasutto, F. M. 245
Patel, M. 589
Paterson, C. R. 440
Paterson, E. 578
Paterson, J. L. 437
Paterson, M. D. 328
Patriarche, G. J. 415
– 428
Patrick, J. E. 593
Patrick, P. H. 347
Patsalides, E. 206
Patton, C. J. 637
Patton, J. S. 237
Paudyn, A. 369 Or
Paul, B. D. 348
Paul, J. 339
Paula, M. H. de 497
Paulet, A. C. de 524
Paulik, F. 323
Paulik, J. 323
Paulis, J. M. 408
– 493
Pauls, R. E. 326
Paulson, A. J. 658
Pauwels, J. 630
Pavel, S. 446
Pavlinskii, G. V. 305
Pavlova, N. 336
Pawłowski, W. 580
Payan, I. L. 235
Paździorek, T. 506
Pearce, J. C. 593
Pearson, C. D. 573
Pearson, K. H. 340
– 520
Pearson, S. 428
Pecina, R. 461 Or
Pedersen, J. R. 505
Pedrali-Noy, G. 242
Pehle, W. 218
Pei, Y. 585
Pelieva, L. A. 200
Pellerin, F. 223
Peltonen, K. 333
Pelzer, G. 417
Pentoney, S. L., Jr. 570
– 635
Pentshuk, J. 307
Pérez Bendito, D. 641
Perezhogin, G. A. 633
Pergola, F. 419
Perides, G. 438
Perkampus, H.-H. 676 Or
Per'kov, I. G. 429
Perlstein, P. 328
Pernollet, J.-C. 581
Pernow, C. 432
Perronnet, J. 339
Persaud, G. 339
Persin, M. 506
Pesavento, M. 589
Peschel, G. 691 Or
Pesliakiene, M. V. 233
Peteghem, C. H. van 582
Peter, H.-J. 404
Peter, S. 217
Peters, G. J. 444
Peters, P. 310
Peters, T. J. 310
– 596
Peterson, D. L. 219
Peterson, R. E. 228
Petersson, B. 226
Petersson, B. A. 588
Petit, G. le 446
Petrakakis, M. 326
Petrone, S. P. 632
Petrov, A. A. 511
Petrov, B. I. 331
– 409
Petrov, P. A. 416
Petrov, S. I. 210
Petrova, T. V. 212
Petrova, T. V.
– 215
– 643
Petrukhin, O. M. 327
– 490
– 513
Petrushkina, V. M. 511
Petrzika, M. 431
Petržilová, H. 425
Pezzatini, G. 419
Pfäffli, P. 333
– 349
Pfeiffer, C. D. 221
Pfister, G. 377 Or
Pflieger, G. 344
Pfordt, J. 625 Or
Pharr, D. Y. 501
Piccoli, G. 234
Pick, J. 571
Picón, A. R. 414
Pierce, G. F. 590
Pietrogrande, A. 216
Pietrogrande, M. C. 347
– 585
Pijpers, F. W. 334
Pilipenko, A. T. 305
– 651
Pinchbeck, F. M. 245
Pineda, L. 410
Pinel, R. 644
Pini, D. 569
Pinkerton, T. C. 486
Pino, F. 493
Pino, J. L. 413
Pinsker, E. A. 505
Piolon, M. 333
Piperaki, E. A. 412
Pirola, R. 594
Piroth, J. 573
Pistre, M. C. 444
Pitts, J. N., Jr. 586
Pizzorno, G. 245
Plaga, A. 434
Plagens, U. 438
Plesch, R. 568
– 686 Or
Plesser, Y. M. 522
Pletsch, H.-J. 621 Or
Plikaytis, B. D. 523
Plischke, W. 595
Plostinaru, D. 580
Plotnikova, R. N. 212
Plummer, E. F. 595
Plzák, Z. 504
Podmaniczky, L. 570
Podrebarac, D. S. 432
Poggi, G. 427
Pogorely. V. K. 338
Poklis, A. 348
Polla, E. 327
– 505
Polo-Diez, L. M. 413
Pólos, K. 586
Poluektov, N. S. 423
– 642
Polupanova, L. I. 505
– 509
Polyakova, A. A. 206
Ponnamperuma, C. 437
Poole, C. F. 205
– 312
– 633
Popa-Nemoiu, A. 580
Popel, G. 226
Popkova, G. N. 322
Popov, A. A. 209
Popov, P. 588
Poppe, H. 486
Porta, L. 641
Porter, D. H. 343

Portnaya, L. V. 502
Postnova, I. V. 215
Potapov, A. M. 404
Potas, T. A. 512
Potts, M. E. 512
Povago, T. Kh. 422
Powell, G. K. 439
Powis, G. 246
Poy, F. 333
Pozhidaev, V. M. 312
Prakash Kapur, O. 229
Pramanik, B. C. 525
Prasad, B. B. 314
Prasad, U. V. 228
Pratt, K. W. 646
Pravshin, Yu. S. 507
– 508
Predieri, G. 405
Préhu, M.-O. 241
Pretorius, V. 406
Pretsch, E. 571
Preuß, A. 531 Or
Prezhdo, V.-V. 208
Přibylová, D. 209
Prinsloo, S. M. 338
– 339
Pritchard, J. G. 589
Profuma, A. 589
Projahn, H. D. 105 Or
Prókai, L. 574
Prokof'ev, V. V. 504
Pronayová, N. 221
Proot, M. 205
Prost, M. 407
Prószyńska, K. 525
Provost, L. R. 224
Pruñonosa, J. 595
Prusakova, I. I. 332
Przeszlakowski, S. 307
– 320
Przybyła, B. 507
Przyjazny, A. 511
Pshetakovskaya, N. A. 658
Puigmacia, M. 336
Puigserver, A. 236
Pulsipher, M. A. 570
Pulyaeva, I. V. 319
– 423
Punčochářová, J. 405
Pungor, E. 340
– 408
– 428
Puputti, E. 430
Purchas, R. W. 238
Purdie, N. 519
– 632
Purdie, Y. J. 243
Purdy, W. C. 207
– 410
– 419
– 434
Puri, B. K. 215
– 315
– 410
– 495
Purnell, J. H. 487
Purohit, D. N. 214
Puschendorf, B. 524
Pussard, E. 446
Puttemans, M. 228
Pyare, R. 424
Pyatnitskii, I. V. 420
– 421
– 492
– 513
– 643
Pyatygina, L. B. 419

Q

Qiu Xing-chu 196 Or
Quarry, M. A. 523
Quebbeman, E. J. 445
Quentin, K.-E. 428
Quigley, A. J. 447
Quinn, M. E. 328
Quivoron, C. 343
Qui Xing-Chu 642
Quon, H. 636
Qureshi, G. A. 236

R

Rabadan, J. M. 211
Rabilloud, T. 240
Racek, J. 590
Radaev, V. N. 510
Radhakrishnamurthy, B. 439
Radola, B. J. 636
Radošević, M. 327
– 505
Radtke, M. 611 Or
Radulescu, N. 515
Radziemski, L. J. 420
Räder, K. 527
Raeymaeker, M. de 591
Rafii, E. 220
Raghavan, S. K. 227
Rahni, M. A. N. 522
Rai, J. 656
Rajadhyaksha, M. 410
– 411
Rajakylä, F. 581
Rajalakshmi, S. 229
Raju, K. V. S. 641
Raju, P. V. K. 418
Rakhit, A. 244
Rakhman'ko, E. M. 324
– 327
– 498
Rakita, R. A. 496
Ram, S. 650
Ramagli, L. S. 344
Ramakrishna, R. S. 657
Raman, V. 656
Rama Rao, G. A. 411
Ramasamy, S. M. 632
Ramdahl, T. 586
Ramendik, G. I. 520
Ramiaramanana, A. 516
Rammell, C. G. 349
Rampazzo, P. 499
Ramsey, M. H. 330
Randazzo, G. 525
Rangamannar, B. 414
– 641
Rangappa, K. S. 649
Rao, G. P. 513
Rao, R. R. 412
Rao, T. P. 513
Rao, V. K. 412
Rao, V. R. S. 583
Rapp, A. 400
Rappe, C. 564
Rapsomanikis, S. 659
Rashied, M. 395 Or
Rast, H.-G. 136 Or
Rathaiah, G. V. 644
Rathi, M. S. 330
Rathouská, Z. 225
Rauret, G. 410
Rawat, J. P. 330
Ray, A. 231
Raya Saro, T. 641
Rayss, J. 205
Raznitsyna, N. A. 318
Rechnitz, G. A. 436
– 519
– 587
Reddy, A. V. 640
– 647
Reddy, G. S. 647
Reddy, V. V. N. 418
Reddy, Y. K. 640
– 647
Reed, G. D. 634
Reena 230
Reeuwijk, H. J. E. M. 434
Reglero, G. 487
Reich, G. 209
Reichard, P. 442
Reichenbach, H. 521
Reinauer, H. 441
– 444
Reinle, W. 344
Reischer, R. J. 240
Remeň, J. 221
Renzoni, G. E. 326
Repka, D. 206
Resarik, K. 406
Reshetnikova, L. E. 332
Reshetnyak, E. A. 211
Reust, J. B. 588
Révus, M. 221
Reynoso, V. 229
Reyskens, D. H. J. P. 338
Rezaaiyaan, R. 566
Rezchikov, V. G. 323
Reznikov, V. I. 205
Rhee, J.-S. 637
– 656
Rhys Williams, A. T. 639
Ribick, M. 244
Ricca, T. L. 201
Rice, D. A. 337
Richard, A. 518
Richard, J. J. 647
– 660
Richardin, P. 506
Richter, B. E. 221
Richter, K. 446
Ricker, R. D. 591
Rideau, M. 336
Rieder, R. I. 407
– 430
– 570
– 571
– 635
Rieger, J. A. 596
Riemschneider, R. 561 Or
Rietz, B. 426
Rigin, V. I. 305
– 484
Rigler, M. W. 237
Rigo, A. 228
Rijkhof, M. 486
Rijks, J. 406
Riley, C. 441
– 491
Riley, J. E., Jr. 650
Rinne, D. 153 Or
Rios, A. 491
– 492
– 580
Rioufol, C. 349
Risinger, L. 494
Ritieni, A. 525
Riva, R. 444
– 594
Rivas P., C. 589
Rizk, M. 433
Rizk, M. S. 516
Rizov, N. A. 430
Rizvi, G. H. 650
Rizzica, M. 341
Roach, B. L. 245
Robards, K. 206
Roberge, A. G. 242
Roberts, D. C. 572
Robinett, R. S. R. 523
Robins, R. H. 245
Robison, W. E. 220
Robyn, C. 438
Rocchiccioli, F. 342
Rocci, M. L., Jr. 528
Roche, M. 339
Rocks, B. F. 441
– 491
Roda, A. 529
Rodriguez, H. 342
Rodríguez, J. 633
Rodriguez, L. V. 344
Rodriguez, M. 487
– 589
Rodriguez-Amaya, D. B. 228
Röhl, R. 402
Roeraade, J. 406
Rogers, L. B. 328
Rogozkin, V. A. 406
– 500
Rohrbaugh, R. H. 206
Rohwer, E. R. 406
Rojas, N. 577
Rojas, P. 579
Rojas-Galicia, L. 523
Rokosz, A. 692 Or
Rokushika, S. 566
Rollins, D. K. 503
Romanach, R. J. 310
Romanova, O. N. 510
Romanovskaya, L. E. 505
– 510
Romero, C. 243
Romon, M. T. 433
Ronchetti, M. 651
Rondinini, S. 409
Rønningsen, H. P. 325
Roods, H. D., Jr. 583
Roome, J. A. 348
Ropte, D. 518
Rosa, R. 241
Rosales, D. 649
Rosati, F. 347
Rose, F. C. 234
Rose, S. L. 656
Rosenberg, R. J. 323
Rosenfeld, A. G. 491
Rosenthal, I. 226
Rosini, C. 569
Rosopulo, A. 631
Ross, D. A. 226
Ross, I. L. 434
Ross, M. M. 524
Rosset, R. 406
– 634
Rosset, R. H. 216
Rossoni, C. 437
Rotatori, M. 592
Roth, L. 399
– 482
Rotzoll, G. 507
Rouault, R. 509
Rouchaud, J. C. 501
Roura, M. 337
Rousset, M. 323
Roy, N. K. 509
Røyset, O. 334
– 336
Rozhina, O. V. 425
Rozylo, J. K. 407
Rubel, St. 578
Rubio, R. 530
Rubio, S. 213
Rudenko, B. A. 233
Rudewicz, P. 575
Rudzitis, G. 320
Rühlmann, T. 345
Rüter, J. 437
Rütjes, R. 83 Or
Ruggles, J. A. 420
Rui, S. Ch. 420
Rupainwar, D. C. 493
Ru-Qin Yu 222
Rusev, V. 255 Or
Ru-Shi Liu 272 Or
Russ, V. 580
Russell, D. H. 202
Russell, J. D. 578
Russello, O. 245
Russeva, N. 218
Rustum, A. M. 445
Rutagengwa, J. 583
Ruth, J. M. 338
– 587
Ružička, J. 490
– 588
Ryan, P. A. 591
Rybtseva, O. N. 239
Rychkova, N. A. 502
Ryder, D. S. 412
Rysev, A. P. 505
Ryter, P. 588

S

Saavedra, S. S. 426
Sabatier, R. 444
Sablukova, I. V. 312
Sacht, C. 493
Sacks, R. D. 313
Sacks, S. L. 529
Sadek, P. C. 203
Sadimenko, L. P. 575
Safarov, A. D. 316
Sagaidachny, S. N. 639
Sagradyan, S. I. 332
Sahil, A. 500
Sahleström. Y. 408
Sahu, N. P. 433
Sahyoun, N. 438
Saied, S. O. 589
Saito, A. 655
Saito, K. 238
– 424
Saito, M. 203
– 309
Saito, Y. 236
Saitoh, K. 216
Saitoh, Y. 443
Sakabe, Y. 583
Sakai, H. 421
Sakai, K. 324
Sakai, T. 484
– 518
Sakai, Y. 414
– 644
Sakamoto- Arnold, C. M. 657
Sakharova, G. N. 221
Sakharova, T. B. 511
Sakla, A. B. 211
Sakodynskii, K. I. 205
Sakurai, K. 568
Saleem, M. M. N. M. 529
Salem, F. B. 517
Salem, N., Jr. 524
Salerno, R. A. 345
Saliba, C. 490
Salinas, F. 413
Salkie, M. L. 438
Sallustio, B. C. 243
Salvador Carreno, A. 220
Salvadori, P. 569
Samokhvalov, G. I. 580
Samperi, R. 430
Sampson, P. M. 345
Samuel, J. 509
Samuels, L. L. 445
Samuilov, Ya. D. 329
Samulenkova, I. E. 510
Samusenko, A. L. 487

Sánchez, F. G. 655
Sánchez Batanero, P. 513
– 643
Sánchez-Pedreño, C. 220
– 316
– 414
– 513
– 643
– 659
Sanchez-Pedreno, J. A. O. 655
Sánchez-Rasero, F. 579
Sander, G. 441
Sandlin, J. L. 310
Sandra, P. 205
Sandström, L. 226
Sangwan, N. K. 418
Sankaraiah, F. 414
Sankaraiah, J. 641
Sankegowda, H. 319
– 321
Sankova, E. V. 513
Santana, J. J. 641
Santiago, J. V. 347
Santona, L. 581
Santos-Delgado, M. J. 413
Sanuki, M. 421
Sapozhnikova, T. I. 505
Sappa, E. 405
Saravalle, C. 221
Sareswat, I. P. 424
Sari, J. C. 241
Sarma, B. S. R. 229
Sarma, N. V. V. S. N. M. 212
Sarma, P. N. 651
Sarmah, K. 414
Sarrasin, B. 312
– 418
Sarzanini, C. 574
Sasade, H. 564
Sassiat, P. 634
Sastry, C. S. P. 228
– 230
– 434
Satake, K. 340
Satake, M. 215
– 315
Sato, M. 238
Sato, S. 419
– 573
– 657
Satoh, P. S. 238
Satoh, S. 241
Satyanarayana, P. 230
Saudemon, M. 434
Savaraj, N. 246
Savel'ev, Yu. V. 500
Savitskaya, T. A. 635
Savory, J. 519
Savos'kina, L. N. 212
– 409
Savvin, S. B. 212
– 215
– 320
– 494
– 643
Saxena, S. K. 579
Saynor, D. A. 526
Sazanov, Yu. 574
Scaro, J. 446
Schäfer, H. 281 Or
Schaefer, R. G. 221
Schaller, R. W. 435
Schallinger, L. E. 310
Schamp, N. 331
Scharf, G. 221
Scheeline, A. 484
– 631
Schelhorn, H. 578
Schikedanz, M. 298 Or
Schillak, R. 579
Schilling, B. 204
Schirmer, R. E. 528
Schlabach, T. D. 203
Schladitz-Keil, G. 528
Schlegel, K. 102 Or
Schleicher, R. G. 641
Schlèmmer, H. 544 Or
Schlotzhauer, W. S. 584
Schmid, W. 597 Or
Schmidt, A. 530
Schmidt, G. 589
Schmidt, S. 205
Schmitz, K. H. 83 Or
Schmitz, O. O. 637
Schmuckler, G. 569
Schnaar, R. L. 442
Schneider, J. 365 Or
Schneider, P. 116 Or
Schneider, V. 589
Schnering, H. G. v. 607 Or
Schnitzler, M. 514
Schöch, G. 441
Schoenen, D. 428
Schoenfeld, R. 401
Schoenmakers, P. J. 634
Scholl 197
Scholz, E. 492
Scholze, H. 343
Schomburg, G. 221
– 570
Schooley, D. L. 342
Schothorst, R. C. 637
Schregenberger, C. M. 204
Schreiber, J. 473 Or
– 476 Or
Schroeder, J. P. 228
Schubert, R. 568
Schubert-Jacobs, M. 484
Schulman, S. G. 567
Schulthess, P. 572
Schulz, J. 335
Schulz, R. P. 338
Schulze, J. 405
Schumann, G. 446
Schuppan, D. 345
Schuster, M. 621 Or
Schuster, R. 434
Schutter, J. A. de 516
Schwartz, H. E. 202
– 650
Schwartz, L. M. 410
Schwedass, A. 527
Schwedt, G. 116 Or
– 121 Or
– 227
– 405
Scolari, C. A. 208
Scott, B. J. 580
Scott, D. R. 632
Sears III, C. P. 569
Sednev, Yu. M. 498
Sedykh, E. M. 331
Seifert, M. 436
Seiffarth, K. 218
Seitz, W. R. 645
Sekei, T. 574
Seki, H. 232
Sekido, E. 638
Selavka, C. M. 487
Selig, W. S. 297 Or
– 616 Or
Selim, W. 508
Selman, S. H. 441
Semenenko, K. A. 419
Sen, A. K. 407
Sena, F. J. 229
Senda, M. 203
– 309
Senda, M.
– 591
– 592
Sengün, F. I. 518
Seno, M. 202
Senthilnathan, V. P. 632
Sentissi, A. 235
Seo, Y. 573
Seow, S. S. W. 447
Sepaniak, M. J. 339
Septar, Z. S. 504
Sergeev, S. K. 209
Sergeeva, O. A. 312
Sethi, C. L. 495
Setti, L. C. 198
Sevenich, G. J. 307
Severin, D. 220
Sevillano-Cabeza, A. 214
Shabana, R. 412
Shabanova, L. N. 200
– 425
Shafer, K. H. 570
– 635
Shah, A. 213
Shah, N. K. 659
Shamaev, V. I. 319
– 427
Shamaev, V. K. 485
Shamanskii, V. A. 409
– 416
Shankland, E. G. 326
Shannon, G. M. 228
Shao, M. J. 443
Shapiro, B. L. 564
Shapiro, I. S. 506
Sharma, C. D. 317
Sharma, O. K. 235
Sharma, S. D. 311
Sharma, S. R. 579
Sharp, B. L. 578
Shavkunova, V. A. 332
Shaw, L. M. 594
Shaw-Chii Wu 212
Shchadrina, A. I. 498
Shchekina, E. V. 319
Shchemeleva, G. G. 495
Shearer, M. J. 525
Shearer, R. L. 313
Shefter, V. E. 333
Sheiner, L. B. 639
Shekhovtsova, T. N. 317
Shelepin, N. E. 495
Shepherd, M. J. 581
Sherma, J. 433
– 585
Sherman, F. B. 568
Sherman, M. G. 201
Sherry, J. H. 443
Sherwood, R. A. 441
– 491
Shestozub, A. B. 505
Shevchuk, I. 309
Shevtsov, N. I. 306
Shibaev, L. A. 574
Shibata, T. 530
Shibata, Y. 496
Shigata, K. 656
Shigematsu, T. 219
Shigenaga, H. 592
Shih, H. W. 328
Shihabi, A. K. 446
Shihabi, Z. K. 519
Shiki, Y. 238
Shilova, L. P. 423
Shima, S. 319
Shimada, A. 417
Shimada, K. 415
Shimamura, M. 235
Shimazu, K. 440
Shimikawa, Y. 241
Shimizu, T. 571
Shimoda, W. 227
Shimoishi, Y. 576
Shimura, K. 448
Shina, A. 657
Shinagawa, E. 241
Shinozuka, T. 238
Shirai, S. 323
Shkurov, V. A. 200
Shmargun, S. V. 420
Shmonina, G. N. 312
Shoji, S. 438
Shomo, R. E., II 514
Shono, T. 222
– 413
Shotov, A. P. 332
Shotwell, O. L. 228
Shoup, R. E. 488
Shou-zhou Yao 231
Shpigun, O. A. 223
– 405
– 500
Shriadah, M. M. A. 646
Shtenke, A. A. 504
Shukla, S. S. 222
Shukla, U. A. 441
– 445
Shukla, V. K. S. 577
Shuster, Ya. A. 416
Shvachkin, Yu. P. 239
Shvarts, E. M. 321
Shvedene, N. V. 316
Shvoeva, O. P. 320
Siato, M. 591
Sica, L. 241
Sichkar', N. E. 420
Sidakov, T. A. 498
Sidorenko, G. A. 509
Siebert, B. 588
Siems, W. F. 433
– 635
Sievers, R. E. 313
– 326
Siewek, F. 225
Siggia, S. 501
Sigon, F. 647
Siklósi, A. 230
Silva, M. 432
Simard, R. E. 584
Simeonov, V. 146 Or
– 258 Or
– 477 Or
Simeonova, S. 478 Or
Simeonova, Z. 504
Simmonds, H. A. 239
Simon, W. 520
– 571
– 572
Simonenko, V. I. 421
Simonis, M. 438
Simonyan, A. L. 233
Simonyi, I. 230
Simova, M. 336
Simpson, B. W. 585
Sindhwani, S. K. 649
Singh, D. K. 195 Or
Singh, M. 656
Singh, R. P. 579
Singh, S. K. 649
Singleton, K. E. 220
Sinha, U. 236
Sinkule, J. A. 527
Sioda, R. E. 636
Sironi. A. 221
Sirotkin, N. I. 513
Sirotnak, F. M. 445
Siskos, P. A. 495
Sithamparanadarajah, B. 233
Sithamparanadarajah, R. 655
Sithole, B. B. 337
Siu, K. W. M. 567
Sivakoff, S. I. 591
Sivamoorthy, V. 641
Sizeneva, I. P. 412
Sizonenko, N. T. 323
Skakum, W. 232
Skarping, G. 326
Skelly, J. P. 528
Skelton, R. J., Jr. 406
Skidmore, L. F. 526
Slatkavitz, K. J. 488
Slattery, J. T. 240
Slavin, W. 200
– 403
– 484
Sletten, E. 220
Slik, W. van der 446
Slobodzian, D. K. 526
Slomianny, C. A. 337
Slotintseva, M. G. 503
Slutskovskaya, L. P. 333
Smet, M. de 446
Smetanina, T. S. 423
Smirnov, A. N. 322
Smit, H. C. 210
– 634
Smith, B. 427
Smith, C. V. 237
Smith, F. 331
Smith, J. F. 345
Smith, L. L. 500
Smith, M. T. 348
Smith, R. D. 634
Smith, R. M. 218
Smith, R. V. 345
Smith, S. B. 641
Smith, S. J. 217
– 590
Smith, S. R. 511
– 652
Smith, T. J. 635
Smolková-Keulemansová, E. 312
Sneddon, J. 420
– 589
Snider, B. G. 440
Snook, R. D. 200
Snowden, R. T. 447
Snyder, I. R. 591
Snyder, L. R. 407
– 523
Sobel, B. E. 241
Sobkowski, J. 207
Sobrosky, G. 593
Soczewiński, E. 571
– 591
– 654
Söderman, K. 442
Soffientini, A. 224
Sofronov, A. L. 208
Sokolov, V. P. 575
Sokolovskaya, L. A. 212
Soldatov, V. N. 639
Solomon, M. G. 636
Solov'ev, A. A. 511
Solov'ev, E. A. 646
Sombret, B. 485
Somerville, C. R. 336
Sommarin, Y. 439
Sommer, L. 588
Sommer, W. 347
Sonnenbichler, J. 439
Sonnenfeld, Z. 339
Sørensen, M. B. 349
Sotirhos, N. 582
Sotnikov, E. E. 223
Soto Moran, R. L. 576

Soula, G. 594
Southern, D. 633
– 634
Souza, N. E. de 515
Spadari, S. 242
Spahn, H. 528
Spandau, D. J. 313
Speer, R. 558 Or
Spener, F. 577
Spillmann, P. 303
Spirina, T. N. 574
Spirov, G. 218
Spitsyn, P. K. 422
Spittler, T. D. 585
Spivack, A. J. 642
Spivakov, B. Ya. 331
– 490
Spragg, R. A. 639
Springer, D. L. 528
Springer, V. 515
Springer, W. 136 Or
Spruit, F. J. 634
Sreenivasan, K. 575
Srinivas, B. 583
Sriramam, K. 229
Srivastava, S. P. 230
Stacey, C. 511
Staden, J. F. van 150 Or
– 247 Or
– 497
Staib, A. H. 595
Stålbom, B. 417
Stan, H.-J. 338
Stanke, Z. 308
Starobinets, G. L. 324
– 327
– 498
Staroscik, J. A. 580
Starostina, L. V. 222
Startin, J. R. 227
Stashkova, N. V. 321
– 322
– 502
Staub, F. 653
Stavchansky, S. 595
St. Claire III, R. L. 570
Steele, A. W. 324
Steele, R. D. 239
– 523
Stefanelli, C. 437
Stefanidis, S. 312
– 418
Stefanov, A. V. 498
Stefanovsky, J. N. 407
Steiger, M. 50 Or
Steinberg, K. K. 590
Steinfeld, R. C. 591
Steinmeyer, S. 581
Stellmacher, S. 433
– 585
Stenner, H. 64 Or
Stenström, S. 326
Stepánek, R. 572
Stepánek, V. 483
Stepanenko, V. E. 332
Stepanov, A. I. 504
Stepanov, E. V. 332
Stephano, J. L. 523
Stephen, S. C. 225
Stephen, W. I. 233
– 497
– 655
Stephenson, M. G. 584
Stepin, V. V. 502
Stern, C. 244
Stetson, P. L. 441
– 445
Stetten, E. von 426
Stetter, J. R. 656
Steudel, R. 214
Stevanato, R. 228
Stevens, H. 232
Stevens, H. M. 596
Stewart, K. K. 490
Stewart, L. E. 641
Stierlin, H. 230
Stijckmans, K. J. 506
Stiles, D. A. 339
Stocchi, V. 234
Stock, L. 220
Stockenström, S. 432
Stockham, T. L. 348
Stockley, R. A. 519
Stodola, J. D. 525
Stöckl, D. 632
Stogniew, M. 233
Stojanov, K. S. 648
Stone, D. C. 637
Storme, G. A. 446
Stott, D. I. 232
Stout, R. W. 591
Stoyanova, I. V. 318
Strachan, M. G. 573
Straitis, J. A. 214
Straka, M. R. 491
Strauss, A. W. 241
Strauss, R. 214
Street, K. W., Jr. 305
Strelow, F. W. E. 323
– 568
Stril'chenko, T. G. 320
Stringham, R. W. 338
Strömberg, B. 505
Strøm, J. 349
Stroshane, R. M. 595
Strycharski, P. 692 Or
Stryker, C. J. 591
Stryszak, E. 314
Štulik, K. 413
– 417
Stumpf, P. K. 335
Sturgeon, R. E. 330
– 567
Sturley, H. N. 435
Sturman, B. T. 402
Sturrock, P. E. 218
– 586
Su, S. Y. 515
– 632
Suárez, F. 493
Suárez, M. 633
Suaud-Chagny, M. F. 522
Suchinskaya, V. E. 504
Suchkov, A. I. 404
Sugihara, H. 572
Sugii, A. 405
Sugimae, A. 427
– 654
Sugitani, Y. 236
Sugiyama, K. 309
Sugiyama, M. 658
Sukhan, V. V. 513
Sukkel, J. T. 204
– 328
Sulaiman, S. T. 529
Sultan, S. M. 430
Sultanov, A. V. 494
Sumi, M. 222
Sumita, S. 423
Sun, P.-J. 553 Or
Sundaram, K. M. S. 586
Sungur, S. 518
Sunshine, I. 593
Suprun, K. 219
Susanto, F. 441
– 444
Sutherland, I. A. 310
Suzaki, K. 596
Suzuki, A. 346
Suzuki, F. 226
Suzuki, M. 574
Suzuki, N. 216
Suzuki, O. 644
Suzuki, S. 211
– 217
– 332
– 418
– 658
Suzuki, T. 442
Suzuki, Y. 500
Svartling, N. 349
Svehla, G. 319
Svetlova, N. I. 487
Svirshchevskyaya, G. G. 318
Svoboda, M. 438
Swanson, S. P. 583
Swarin, S. J. 511
Swartz, M. 432
Sweetman, J. A. 586
Swynnerton, N. F. 596
Sybilska, D. 311
– 312
– 418
Sybrecht, G. W. 446
Symerský, J. 222
Szabó, L. D. 596
Szegedi, S. 576
Szejtli, J. 230
Szepesi, G. 219
Szepesy, L. 570
Szerderkényi, F. 239
Szewczyk, H. 652
Szotyory, L. 230
Szumilo, T. 529
Szymanowski, J. 652

T

Táborský, J. 652
Tachikawa, E. 425
Taddia, M. 643
Taga, C. 234
Taga, H. 524
Tagaki, M. 644
Tagami, S. 586
Taha, Z. H. A. 657
Taher, M. B. 496
Takahagi, I. 593
Takahashi, H. 237
Takahashi, K. 329
Takahashi, M. 514
Takahashi, S. 234
Takahashi, Y. 323
Takai, N. 202
– 230
– 515
Takakusagi, K. 230
– 515
Takano, J. 655
Takata, M. 311
Takata, Y. 203
Takayama, T. 316
Takayanagi, H. 416
– 498
– 501
Takeda, I. 514
– 660
Takeda, Y. 642
Taketa, K. 524
Taketatsu, T. 317
Takeuchi, K. 214
Takeuchi, T. 240
– 308
Taki, M. 203
Talipov, Sh. T. 496
Tamás, J. 239
Tambute, A. G. 216
Tamura, Y. 237
– 592
Tanabe, Y. 217
Tanada, S. 429
Tanaka, H. 436
– 539 Or
Tanaka, K. 337
– 530
Tanaka, K. R. 242
Tanaka, M. 222
– 346
– 413
– 415
– 632
Tanaka, N. 202
– 416
Tanaka, S. 573
– 657
Tanaka, Y. 208
– 236
– 526
Tanase, I. 411
Tani, K. 500
Taniguchi, M. 420
– 424
– 503
Tanner, R. L. 313
Tao, H. 645
Tarafdar, A. S. 168 Or
Tarbet, B. J. 204
Tarcali, J. 340
Tarka, M. 570
Tarroux, P. 240
Tarter, J. G. 307
Tate, P. S. 245
Tatikyan, S. Sh. 233
Tau, L. 325
Tavares, T. M. 359 Or
Tavendale, R. 439
Tay, S. A. B. 440
Taylor, A. J. 240
Taylor, C. G. 573
Taylor, I. W. 526
Taylor, L. T. 309
– 406
Taylor, M. D. 583
Taylor, P. 430
– 502
Taylor, T. 526
Teala, F. W. J. 415
Telnaes, N. 220
Temmerman, I. 205
Teng, J. I. 500
Terabe, S. 311
– 342
Terada, H. 232
Terada, M. 421
Terada, T. 439
Terade, H. 583
Teramae, N. 631
Terano, T. 237
– 592
Terao, J. 349
Terent'ev, V. A. 313
Terhaag, B. 446
Térouanne, B. 524
Terpinski, E. A. 213
Tesařík, K. 500
Tetrashvili, M. S. 422
Tetsumi, T. 222
Tett, S. E. 348
Tettamanti, M. 409
Tews, E. C. 632
Tezuka, M. 571
Thega, I. K. 230
Thelin, B. 566
Thénot, J. P. 446
Thgijssen, P. C. 210
Thiel, P. G. 432
Thiemann, W. 437
Thijssen, P. C. 334
– 408
Thimmaiah, K. N. 319
Thimme Gowda, A. 321
Thisted, B. 349
Thomas, A. 578
Thomas, J. D. R. 314
– 489
– 573
Thomas, M. B. 218
– 586
Thomas, T. C. 584
Thommen, C. 491
Thompson, A. C. 632
Thompson, E. I. 527
Thompson, J. M. 233
– 655
Thompson, L. 227
Thompson, M. 330
Thompson, T. S. 313
Thonney, M. L. 226
Thormann, W. 207
– 208
Thorpe, J. W. 519
Thuilot, G. 524
Thulin, S. 572
Thummel, K. E. 240
Tiebach, R. 581
Tieckelmann, H. 441
Tiefenthaler, K. 436
Tiegs, C. 217
Tikhomirova, E. I. 419
Tikhomirova, T. I. 490
Tikhonova, L. V. 316
Tikhonova, N. B. 514
– 658
Tikkanen, M. W. 566
Tipnis, V. 244
Tishchenko, A. Yu. 332
Tisljar, U. 243
Tisse, C. 582
Tissieres, M. 518
Tisue, G. T. 513
Tjaden, U. R. 434
Tkachuk, T. M. 305
Tobelko, K. I. 411
Toda, S. 333
Toda, T. 311
Todd, P. J. 632
Töei, K. 224
– 420
– 512
– 659
Tölg, G. 32 Or
– 399
Tofanetti, O. 527
Tohei, S. 203
Tohfuku, Y. 217
– 418
Tokarev, M. I. 206
Tokuda, H. 498
Tokuda, T. 423
Tokumori, H. 649
Tokunaga, Y. 311
Tolkachev, I. V. 579
Tomas, F. 229
Tomer, K. B. 327
Tomita, T. 592
Tomov, E. 336
Toneva, G. 255 Or
Tong, H. Y. 313
Tongyue, C. 322
Tonkin, A. M. 526
– 594
Tonković, M. 646
Topp, H. 441
Toral, M. I. 214
Torgov, V. G. 648
Torok-Both, G. A. 245
Torosyan, Zh. K. 223
Torrance, K. 647
Torrecillas, M. C. 643
Tóth, K. 340

Tóth, K.
– 408
Tóth, T. 488
Tóth-Sarudy, É. 239
Totty, R. N. 224
Towns, T. G. 644
Townshend, A. 346
– 492
– 495
– 496
Toyo'oka, T. 591
Traitler, H. 439
Tran Van Ky, P. 435
Traub, P. 438
Trave, F. 245
Treffner, E. 526
Trehy, M. L. 571
Trestianu, S. 221
Tret'yakova, E. V. 520
Trevaskis, J. M. 573
Trofimenko, N. E. 324
Trofimova, N. S. 495
Troitskii, D. A. 427
Trojanowicz, M. 208
– 217
Trublaevich, Zh. N. 579
Truchot, R. 581
Tsai, A.-L. 442
Tsai, C.-P. 500
Tsai, T. S. 529
Tsaousis, A. N. 413
Tsarfin, Ya. A. 574
Tse, K. T. 220
Tselik, E. I. 423
Tseng, C. L. 520
Tsiomo, S. N. 216
Tsirul'nikova, N. V. 316
Tsizin, G. I. 411
Tsokos-Kuhn, J. O. 237
Tsuchiai, H. 648
Tsuchiya, H. 319
Tsuchiya, M. 222
Tsuda, K. 217
Tsuda, T. 202
Tsui, S.-k. 645
Tsuji, A. 435
– 448
Tsuji, K. 231
Tsuji, M. 234
Tsukada, K. 448
Tsuruta, K. 311
Tsvetkov, N. A. 496
Tsvirko, G. A. 324
Tsykhanskii, V. D. 403
Tucker, D. J. 588
Tucker, H. A. 238
Tulyupa, F. M. 410
Tummuru, M. K. 230
Tupikova, E. V. 646
Turakhanova, N. T. 496
Turco, S. J. 346
Turel, Z. R. 410
– 411
– 414
Turk, D. J. 434
Turkin, Yu. I. 509
– 658
Turner, A. P. F. 587
Turovskaya, R. V. 222
Tur'yan, Ya. I. 408
Tušek-Žnidarič, M. 341
Tutunji, M. 657
Twengström, S. 658
Tyson, F. J. 484
Tyson, J. F. 207
– 402
– 403
– 491
– 637
– 657
Tyurin, D. A. 520

U

Uchida, T. 305
– 510
Uchikawa, S. 419
Uchino, K. 443
Uchiyama, S. 217
– 418
Uden, P. C. 488
– 501
– 569
Udseth, H. R. 634
Ueda, K. 428
Ueda, Y. 229
Uehara, E. 571
Uehara, K. 564
Uehara, S. 514
Uehira, H. 498
Uehiro, T. 340
Uemura, S. 429
Uetake, A. 217
Uflyand, T. F. 423
Ulakhovich, N. A. 215
– 510
Ullmann 563
Ultee, M. E. 344
Umland, F. 8 Or
– 191 Or
Unadkat, J. D. 639
Une, M. 440
Uno, T. 246
Uno, Y. 574
Unruh, G. E. von 444
Unverzagt, D. 473 Or
Uoji, H. 343
Urasa, I. T. 659
Urayama, T. 237
Ure, A. M. 578
Urusov, V. S. 411
Ushakova, V. A. 333
Usov, V. N. 502
Ustinova, V. I. 502
Uvarova, K. A. 319

V

Vachon, L. 437
Vadgama, P. M. 346
Vagdama, P. 588
Vagizova, A. S. 207
– 497
Vajda, J. 571
Val, J. 495
Valcarcel, M. 212
– 213
– 317
– 432
– 491
– 492
– 494
– 580
– 640
– 645
Valente Soares, L. M. 228
Valentine, G. 404
Valentour, J. C. 342
Vallee, B. L. 442
Vallès, J. M. 595
Van, K. V. 306
Vandecasteele, C. 163 Or
– 506
– 630
Van den Bossche, W. 232
– 244
– 407
Vanderslice, J. T. 491
Van der Weken, G. 407
Vandiver, V. J. 510
Van Dyck, P. 306
Van Grieken, R. 306
Van Lancker, M. A. 445
Vanloo, B. 163 Or
Van Loon, J. C. 369 Or
Van Swaay, M. 631
Vañura, P. 211
Vardanis, A. 307
Vardanyan, L. S. 508
Vardanyan, V. D. 508
Vargo, J. D. 653
Varma, K. V. 414
Varma, S. R. 485
Varsányi-Riedl, K. 219
Vasilikiotis, G. S. 214
– 646
Vasilikiotos, G. 477 Or
Vas'kovskaya, T. A. 643
Vasta, J. F. 523
Vataman, I. I. 497
Vaz, W. L. C. 575
Vedder, J. F. 332
Veelen, H. van 239
Vela, J. M. 648
Velösy, G. A. 530
Venema, A. 204
– 328
Ventura, M. 410
Verbruggen, A. 411
Verdier, F. 446
Verdier, M. F. 348
Verdoni, P. A. 509
Verein Deutscher Ingenieure 481
Verevkin, G. V. 648
Vergoten, G. 434
Verhoeven, F. C. C. J. G. 634
Verlinden, J. 648
Verma, B. S. 418
Verma, K. K. 516
Vermeulen, N. P. E. 444
Vershinin, V. I. 501
Verstappe, M. 205
Vertinskaya, T. E. 490
Verweij, A. 448
Verzele, M. 205
– 306
– 486
Verzella, G. 226
Veselov, V. Ya. 500
Vespalec, R. 633
Vessman, J. 517
– 526
Veth, M. 439
Veverka, C. V. 528
Viadal, P. M. 445
Vialle, A. 348
Vibhute, C. P. 643
Vickers, T. J. 230
Vidaver, G. A. 591
Vidrevich, M. B. 206
Vidrine, D. W. 309
Vigdergauz, M. S. 312
– 313
– 487
– 488
Vigh, Gy. 308
Vijayakumar, M. 420
Vila, E. 632
Vilde, S. 309
Viljoen, A. J. 338
Villarreal, M. 641
Villeval, J.-L. 241
Vimalasiri, P. A. D. T. 223
– 327
– 653
Vinarova, L. I. 318
Viñas, P. 220
– 414
Viñas López-Pelegrín, P. 316
Vincent, E.-J. 220
Vincent, R. 426
Vinci, G. 592
Vincké, B. J. 428
Vinet, B. 522
Viplava Prasad, U. 434
Virgili, R. 417
Viška, J. 633
Visor, G. 578
Vitenberg, A. G. 406
Viteva, L. Z. 407
Vithanage, R. S. 492
Vlasáková, V. 417
Vlasov, Yu. G. 316
– 317
Vliet, A. van der 308
Vliet, H. R. van 150 Or
Vo, T. 332
Vodička, L. 217
– 405
Vo-Dinh, T. 485
Vögler, P. 252 Or
Völkl, A. 442
Völlkopf, U. 508
Voelter, W. 399
Vogl, W. 337
Vogt, W. 237
– 347
Voigtman, E. 631
Volk, S. 412
Volke, P. 404
Volkov, S. A. 205
Volle, C. P. 518
Voloshchik, I. N. 405
Volpe, P. 644
Volynsky, A. B. 331
Vonderheid, C. 197
Vorob'eva, S. E. 403
Vorsatz, B. 420
Voskova, N. A. 239
Voulgaropoulos, A. 477 Or
Vouros, P. 500
Voyksner, R. D. 517
– 654
Vree, T. B. 245
Vries, J. W. de 228
Vtyurina, N. N. 329
Vul'fson, E. K. 424
Vulfson, E. N. 529
Vyas, K. H. 244
Vytřas, K. 222

W

Wada, H. 239
– 240
– 640
Wada-Yano, S. 236
Wagner, C. 343
Wagner, O. F. 529
Wagner, R. 485
Wagner-Jauregg, T. 199
Wahbi, A.-A. M. 518
Wahlund, K. G. 653
Wai, C. M. 659
Waidmann, E. 141 Or
Wakai, J. 246
– 527
Waki, H. 311
Wakizaka, Y. 512
Wal, O. Sj. van der 218
Walash, I. 517
Walash, M. I. 433
– 516
Wald, D. 565
Waliszewski, K. N. 393 Or
– 394 Or
Waliszewski, S. M. 393 Or
– 394 Or
Walker, J. S. 525
Walkowiak, W. 641
Wall, R. A. 529
Wallace, G. G. 588
– 636
Walseth, F. 527
Walsh, J. N. 330
Walstad, R. A. 527
Walt, T. N. van der 323
Walter, F. L. 639
Walters, F. H. 569
Walton, H. F. 308
Walton, K. M. 442
Walton, M. I. 595
Walton, S. J. 648
Wang, F. 649
Wang, J. 232
– 435
– 488
– 636
– 642
Wang, M. 490
Wang, M.-Z. 528
Wang, R. S. 411
Wang, X. 576
Ward, T. J. 633
Wardman, R. H. 329
Warman, P. R. 578
Warne, S. S. J. 325
Warner, I. M. 660
Warrell, D. C. 629
Wasa, T. 238
Wasberg, M. 408
Watanabe, K. 503
– 641
– 642
Watanabe, Y. 337
Waterhous, D. V. 440
Watkins, K. 580
Watson, C. H. 202
Watson, J. T. 239
Wauters, G. 163 Or
Weaver, K. M. 654
Weber, D. 508
Weber, G. L. 448
Weber, H. 64 Or
Weber, J. H. 659
Weber, J. P. 409
Weber, J. R. 219
Weber, M. 636
Weber, R. 581
Weber, S. G. 488
Webster, D. E. 210
Webster, H. W. M. 423
Wedborg, M. 657
Weeke, F. 221
Wegscheider, W. 565
– 639
Wehmeyer, K. R. 518
Weicker, H. 590
Weidenhoffer, Z. 504
Weinert, C. H.-S. W. 568
Weingart, M. 417
Weisenberger, C. R. 514
Weisner, S. 429
Weiß, J. 399
– 654
Weisz, H. 102 Or
Weken, G. van der 516
Welinder, B. S. 525
Wells, D. A. 499
Welsch, T. 202
Welte, S. 209
Welz, B. 95 Or
– 484
Wenclawiak, B. 326
Weng, O. 595
Werkhoff, P. 580
West, T. S. 578
Westerlund, D. 246

Westland, A. D. 650
Westley, J. 243
Westwood, B. E. 594
Wheals, B. B. 328
Wheeler, W. B. 587
Whitaker, M. J. 319
– 575
White, C. M. 487
White, J. G. 570
White, N. H. 347
White, P. C. 328
White, T. J. 433
Whiton, R. S. 345
Wieland, J. 441
Wientzek, M. 440
Wieslander, J. 439
Wigfield, Y. Y. 338
Wightman, R. M. 488
Wijnands, W. J. A. 245
Wildfeuer, A. 527
Wildt, Th. 691 Or
Wilhelms, A. 213
Wilk, Z. A. 328
Wilkins, C. L. 201
Wilkins, J. P. G. 339
Wilkinson, M. C. 656
Willemse, P. H. B. 239
Williams, E. J. 326
Williams, F. P. 517
Williams, J. B. 525
Williams, M. G. 245
Williams, P. S. 487
Williams, P. T. 651
Williams, S. 629
Williams, T. D. 437
Williamson, T. G. 584
Willis, K. H. 341
Willis, K. J. 415
Willis, R. G. 439
Wils, E. R. J. 448
Wilson, G. S. 345
Wilson, I. D. 347
Wilson, K. 526
Wilson, M. F. 576
Windemann, H. 431
Winefordner, J. D. 219
– 221
– 427
– 631
Winegarner, H. S. 653
Winer, A. M. 586
Winkler, G. 344
Winkler, K. 449 Or
Winquist, F. 523
Winquist, S. 636
Wirsz, D. F. 638
Wirth, M. J. 631
Wirth, W. 400
Wise, M. B. 632
Wisser, H. 399
Wisser, K. 658
Witkiewicz, Z. 314
Wittkowski, R. 564
Woestenburg, W. J. 582
Wojciechowski, M. 636
Wokaun, A. 485
Wold, S. 486
Wolf, R. M. 204
Wolf, U. 344
Wolfbeis, O. S. 387 Or
Wolff, C. M. 318
Wolschann, P. 344
Wolski, T. 591
Wolthers, B. G. 239
Wong, O. C. 440
Wons, T. 561 Or
Woo, I. H. 325
Wood, K. V. 220
Woodcock, J. T. 647
Woody, M. C. 506
Woollard, D. C. 582
Workman, P. 595
Worley, J. W. 655
Worsfold, P. J. 345
– 436
– 441
– 637
Wrigh, J. M. 437
Wright, B. W. 634
Wright, G. J. 245
Wrobel, K. 211
Wu, C. Y. 502
Wu, D.-F. 528
Wu, Q. 216
– 418
Wünsch, G. 88 Or
Wüstefeld, H. 589
Wu Limin 334
Wunder, D. J. 636
Wurtele, E. S. 335
Wurtman, R. J. 436

X

Xiaoming, W. 322
Xu, Li-q. 534 Or
Xu, Sh. 576
Xu, Y. 377 Or
– 649

Y

Yacynych, A. M. 572
Yaegashi, M. 236
Yagi, M. 340
– 421
Yagodina, O. V. 216
Yakimova, N. M. 509
Yakshinskii, A. I. 496
Yakushin, V. K. 496
Yakushina, E. V. 210
Yamada, H. 236
Yamada, M. 658
Yamagishi, M. 327
Yamaguchi, K. 321
Yamaguchi, M. 439
Yamaguchi, S. 653
Yamaguchi, T. 219
Yamaguchi, Y. 592
Yamamoto, K. 232
– 590
Yamamoto, M. 226
Yamamoto, S. 421
Yamamoto, T. 440
– 530
Yamamoto, Y. 240
– 428
Yamamura, Y. 443
Yamanaka, H. 238
Yamanaka, K. 657
Yamanaka, T. 217
Yamane, M. 237
Yamaoka, T. 438
Yamashita, M. 440
Yamashita, S. 423
Yamashita, T. 311
Yan, D.-R. 405
Yanagihara, Y. 203
– 240
Yanagisawa, I. 237
Yang, M. H. 502
– 520
Yang, X. G. 110 Or
Yang, Y.-B. 306
Yanotovskii, M. Ts. 580
Yao, T. 238
– 436
Yao Xu-zhang 422
Yasuda, H. 246
Yasuoka, T. 655
Yatchishin, I. I. 219
Yates, D. E. 416
Yatsimirskaya, N. T. 498
Yatsimirskii, K. B. 645
Yau, W. W. 310
Yazawa, S. 242
Yeager, P. R. 590
Yein, F. S. 238
Yergey, A. L. 635
Yeung, E. S. 314
Yinon, J. 447
– 654
Yokoyama, Y. 237
Yonekawa, W. D. 594
Yoneyama, T. 423
Yonezawa, C. 425
Yoo, B. 240
Yoshida, H. 214
– 343
– 653
Yoshida, S. 237
– 592
Yoshida, T. 217
Yoshimura, E. 333
Yoshinaga, A. 568
Yoshiura, M. 593
Yoshizawa, T. 583
Yost, R. A. 571
Young, C. W. 445
Young, R. S. 648
Yousef, M. 518
Yoza, N. 240
– 323
– 442
– 645
Yu, P. H. 242
Yu, Y. 411
Yu, Y.-W. 528
Yuasa, S. 417
Yudelevich, I. G. 503
– 648
Yugeta, Y. 512
Yuhas, D. A. 227
Yui, S. 441
Yuki, H. 203
Yun-Pei Wu 224
Yu Ren-qing 422
Yusupov, M.Yu. 414

Z

Zaalberg, J. 582
Zabotin, P. I. 503
Zacharov, V. A. 503
Zachowski, E. J. 636
Zadeh, J. M. 642
Zaev, E. E. 416
Zagatto, E. A. G. 408
– 649
Zailaf, M. 479 Or
Zaitsu, K. 530
Zaitsu, T. 224
Zak, B. 522
Zakhari, N. A. 433
Zaki, M. T. M. 217
Zalavári, G. 230
Zambonin, P. G. 445
Zambotti, F. 594
Zancato, M. 216
Zarebski, J. 489
Zasavitskii, I. I. 332
Za'tar, N. A. 643
Zavarzina, E. F. 314
Zav'yalov, P. I. 496
Zayats, V. A. 651
Zebreva, A. I. 501
Zecca, L. 594
Zee, J. A. 584
Zel'venskii, V. Yu. 205
Zender, J. 126 Or
Zenkevich, I. G. 312
Zerez, C. R. 242
Zerner, B. 434
Zhang, S. 576
Zheng, Z. 411
Zhitenko, L. P. 505
Zholdybaeva, R. B. 494
Zhou Nan 422
Zhu, M. D. 207
Zhu, R. 534 Or
Zhujun, Z. 645
Zhukov, M. S. 494
Zhukova, N. G. 320
Zhulenko, V. N. 582
Zhu Ying-Quan 196 Or
– 642
Zhvakina, M. V. 494
Ziang, L. 200
Ziegler, H. 639
Ziegler, J. M. 507
Zielinska, B. 586
Zieloff, K. 518
Zienius, R. H. 427
Zile, M. H. 592
Zilioli, G. 221
Zima, J. 434
Zimmermann, P. R. 655
Zinapold, K. 593
Zini, Q. 512
Zinn, S. A. 238
Zlatkis, A. 429
Zlotnick, G. W. 442
Zoccolillo, L. 651
Zolotov, Yu. A. 223
– 331
– 405
– 490
– 500
– 513
Zonta, N. 594
Zoumboulis, A. I. 506
Zuberbühler, A. D. 210
– 638
Zubova, N. A. 312
Zueva, V. L. 422
Zullino, G. 569
Zupan, J. 209

A

Acenaphthenequinone monothiosemicarbazone
– detmn. of osmium(VIII) and iridium(III) with – 649

Acephate
– detmn. of –, methamidophos and terbufos in tobacco by GC 394

Acetals
– use of – and cyclic ethers as indicators in thermometric titration 493

5-(4-Acetamidophenyl)pyrazin-2(1H)-one
– detmn. of – in blood plasma by HPLC 593

Acetaminophen
– detmn. of phenylpropanolamine hydrochloride and – in pharmaceutical products by Raman spectrometry 230

Acetic acid
– detmn. of allyl isothiocyanate, 3-butene nitrile and – in mustard by GC 581
– detmn. of divinylacetylene and – as micro-impurities in vinyl acetate by GC 508
– detmn. of –, formic acid and propanoic acid in rain water and HPLC 333

Acetoacetate
– conditions for the kinetic detmn. of – in body fluids 522

Acetoacetyl-CoA synthetase
– detmn. of – by radiochemical assay 240

Acetone
– detmn. of – in biological fluids by HPLC/GC 522
– detmn. of water in – 651
– detmn. of – with diazotized p-aminobenzoic acid by spectrophotometry 415
– hydration of cobalt(II) chloride in – in presence of small amounts of water 651

Acetophenone
– phosphorescence charact. of –, benzophenone, p-aminobenzophenone and Michler's ketone 221

Acetylacetone
– detmn. of cobalt(II) and cobalt(III) by spectrophotometry, precipitation with – 215

Acetylacetothioacetanilide
– detmn. of mercury with – by gravimetry as HgS 316

2-Acetylaminofluorene
– anal. of – by GC with ECD 511

Acetylcholine
– amperometric – and choline sensors with immobilized enzymes 436
– detmn. of – and choline by HPLC on immobilized enzyme column 436
– detmn. of – and choline in rat brain tissue by LC with immobilized enzyme post column reactor 590

Acetylcysteine
– detmn. of N–– in blood plasma, comparison of electrochem. detection methods in LC 438

Acetylene
– Clark oxygen electrode, influence of –, ethylene and methane 314

N-acetyl-L-glutamine
– detmn. of – in urine by HPLC 290

N-acetyl-2'-O-methyllactosamine
– detmn. of α-L-(13)-fucosyltransferase in blood serum with – as acceptor 242

Acetylspermidine
– sepn. of N^1- and N^8–– isomers by reversed-phase HPLC as dansyl derivatives 437

Acetyltryptophan
– detmn. of – and octanoic acid in albumin solutions by HPLC 235

Acid/base titrations
– using photosensors and membrane photosensors 638

Acidity constants
– evaluation of overlapping – of acids, diprotic, numerical method 299

Acids
– detmn. of – and bases by peak width measurements in flow injection analysis 637
– detmn. of –, bases, metal ions and redox species by peak width measurements in flow injection analysis 637
– detmn. of free – in ore process solutions by titration 505
– detmn. of iodate, iodide and – by flow injection anal./spectrophotometry 497
– factors affecting the precision of anal. by potentiometric titration of weak – 638

Acids, diprotic
– evaluation of overlapping acidity constants of –, numerical method 299

Acivicin
– detmn. of – in blood plasma by GC/MS 245

Acrolein
– detmn. of gaseous – by GC 334
– detmn. of – in biological tissues by HPLC 447
– detmn. of – in rain water by GC, after bromination 429

Acrylate-methacrylate polymers
– compositional anal. of 2-hydroxy ethyl methacrylate – by pyrolysis GC 653

Acrylic fibres
– ident. of – by combination of several microscopic methods 508

Additives
– charact. of – in plastics by LC/MS 653
– detmn. of – in polypropylene by selective chemical ionization MS 575
– detmn. of organic – in ethylene-propylene dien monomer rubber by HPLC 328
– sepn. of – in poly(vinyl chloride) by HPLC 575

Adenine nucleotides
– detmn. of – in brain tissue by HPLC 240

Adenosine
– detmn. of – and S-adenosyl derivatives of amino acids, sulfur in tissues, animal by HPLC 239
– measurement of femtomolar conc. of – 530

Adenosine triphosphate
– detmn. of – with immobilized luciferase 529

Adenosine triphosphate, disodium
– improved sensitivity for – in secondary ion mass spectrometry 626

Adipic acid
– detmn. of – in urine by GC, extractive alkylation 342

Adrenaline
– detmn. of noradrenaline and – in urine by HPLC solid-phase reactors 437

Adriamycin
– detmn. of – in blood plasma, cell cultures by HPLC/fluorimetry 445

Adsorbents
– adsorption of lanthanides with crown ethers – 212

Aerosol pollutants
– sepn. of anesthetics and – in operating room air by GC 233

Aerosols
– detmn. of elemental composition of urban – in air by factor anal. 654
– wind directed sampling and multielement analysis of atmosph. – by ICP-AES/GF-AAS, air pollution 50

Aflatoxin M_1
– detmn. of – in dry milk by reversed-phase HPLC 584

Aflatoxins
– detmn. of – in foods by reversed-phase HPLC, post-column iodine derivatization 432

Agricultural analysis
– combination of flow-injection techniques with spectrometry, atomic in – and environmental analysis 576

Air
– anal. of pesticides in –, sampling in Chromosorb 102 tubes 584
– coating materials for the detection of nitrobenzene in – with piezoelectric crystals 655
– contamin. of – and environmental samples by radioactive fission products after Chernobyl accident 597
– continuous detmn. of hydrogen fluoride in – 332
– detmn. of aldehydes in the – of working environment 426
– detmn. of aromatic epoxy resins in – by IR spectrometry 333
– detmn. of C_3–C_5 aldehydes in – by GC 333
– detmn. of chlorine in – by spectrometric monitoring 657
– detmn. of chloroacetophenone in working zone – by spectrometry 511
– detmn. of chloroacetyl chloride in – by HPLC 655
– detmn. of elemental composition of urban aerosols in – by factor anal. 654
– detmn. of freon-12 in – by diode laser spectroscopy 332
– detmn. of gaseous hydrogen peroxide in –, cryogenic sampling 359
– detmn. of hydrocarbons, halogenated in marine and continental – and rain water by high resolution GC 1
– detmn. of hydrocarbons in – by GC 655
– detmn. of hydrogen cyanide in – using mass amplification on piezoelectric crystals 656
– detmn. of hydrogen sulfide and carbon sulfide in – by GC, simultaneous sampling in personal sampler 426
– detmn. of inorganic gases and gas mixtures in – by negative ion mobility spectrometry 510
– detmn. of lewisite vapor in – by molybdenum-blue method 427
– detmn. of mercury in – by AAS after collection on $KMnO_4$-coated glass beads 654
– detmn. of mercuryorgano compounds and arsenicorgano compounds in water and – by GC/AAS 369
– detmn. of phenol, cresols and xylenols in workplace – by HPLC with electrochem. detection 655

Air
– detmn. of sulfur dioxide in –, morpholine as absorbing reagent 656
– detmn. of sulfur dioxide in –, porous membrane diffusion scrubber for sampling 656
– detmn. of trace components in – by GC, multistage open-tube trap for cryogenic collection 332
– ident. of organic compounds, volatile in – by GC 332
– occurence of monoalkyllead species during the speciation of leadorgano compounds in – 655
– preconc. of volatile sulfurorgano compounds in – on porous polymers 511
– sepn. of anesthetics and aerosol pollutants in operating room – by GC 233
– trace substances in –, phys.-chem. behavior, book 563
Airborne dust
– multielement analysis of – of the city of Ulm, comparison with other regions 41
Airborne particulates
– detmn. of phosphorus in – by ICP spectrometry and ion chromatography 333
– detmn. of trace elements in – by ICP-AES 654
Air pollution
– wind directed sampling and multielement analysis of atmosph. aerosols by ICP-AES/GF-AAS, – 50
Albumin
– detmn. of acetyltryptophan and octanoic acid in – solutions by HPLC 235
– detmn. of – and immunoglobulin G by nephelometry, laser, effect of deterioration 438
– detmn. of – in human blood serum with chrome azurol S by fluorimetry 236
– Lowry proteins detmn. by flow injection anal. for bovine serum – and hepatitis B surface antigen 345
Alcohol dehydrogenase
– detmn. of – in blood serum by differential pulse polarography 529
– ident. of – isoenzymes by electrophoresis 442
Alcoholic beverages
– detmn. of ethanol in – by GC, accuracy 580
Alcohols
– detmn. of carbohydrates, – and diethylene glycol in wine by HPLC 225
– ferrocene reagents for derivatization of – by HPLC with electrochem. detection 415
Alcohols, aliphatic
– detmn. of – with benzoate esters by reversed-phase HPLC 415
Aldehydes
– detmn. of – and ketones by Karl Fischer titration 492
– detmn. of – and ketones in environmental materials by LC/MS, 2,4-dinitrophenyl-hydrazine derivatives 511
– detmn. of C_3–C_5 – in air by GC 333
– detmn. of – in diesel exhaust by spectro-photometry 426
– detmn. of – in the air of working environment 426
Alditol acetates
– sepn. of monosaccharides as partially methylated – by capillary GC/MS 346
Alfuzosin
– detmn. of – in biological fluids by HPLC/ fluorimetry 446
Aliquat 336S
– sepn. of beryllium by extr.-chromatography with – as stationary phase 211
Alizapride
– detmn. of – in blood plasma by HPLC 243
Alkali halides
– anal. of – by MS, various ionization modes 640
Alkali metal halides
– kinetic detmn. of carbonates in – of special purity 423
Alkalimetry
– potassium sulfosalicylate as standards in – 493
Alkaline earth cations
– sepn. of – by competitive solvent extraction by acylic diionizable polyethers 641
Alkaline earth metals
– estim. of – by titrations, sequential with sodium tetraphenyloborate 616
Alkanes
– sepn. of – by chromatography, gas with EI- and CI-MS 313
Alkylkamines, n-
– sepn./detmn. of long-chain – by RP-HPLC after fluorescence derivatization 15
Alkyl acetates, monochlorinated
– sepn. of n–C_1–C_{18} by capillary GC 499
– sepn. of n–C_1–C_8, chloroacetates, dichloroacetates and trichloroacetates by capillary GC 499
Alkyl acrylates
– sepn. of – by GC 652
Alkylamine ions
– IR multiphoton and collision-induced dissociation studies of some gaseous –, ions by mass spectrometry, FT 202
α-Alkyl amino acids
– sepn. of enantiomers of – by TLC 298
Alkylanilines
– sepn. of N– by reversed-phase LC 218
Alkylbenzenes
– sepn. of isomeric – as cyclodextrin complexes by reversed-phase HPLC 418
Alkylbiphenyls
– HPLC of – on silica 405
Alkyl chlorides
– sepn. of – by GC 499
Alkyldithiocarbamates
– detmn. of organic and inorganic mercury compounds by HPLC as – 267
Alkyl halides
– detmn. of – and epoxides in environmental materials in HPLC, picric acid derivatization 511
Alkylsulfate
– film –-selective electrodes based on quaternary ammonium salts 327
Alkyl sulfonates
– charact. of techn. – by indirect photometric detection with gradient elution 576
– detmn. of – by LC with indirect photometric detection 576
Alloys
– detmn. of bismuth in steel, – and waste water with 2-(4,5-methylthiazolyl-2-azo)-5-diethyl-aminophenol by spectrophotometry 322
– detmn. of cadmium in – by spectrophotometry using a new reagent 494
– detmn. of cobalt in steel, – and minerals by spectrophotometric titration 502
– detmn. of copper in – and ores by complexometry 420
– detmn. of copper in – with 2-nitroso-5-dimethyl-aminophenol and zephiramine by solvent extr. -spectrophotometry 420
– detmn. of copper in – with EDTA by spectrophotometry 420
– detmn. of gold and platinum in – by ICP-AES 421
– detmn. of hydrogen in – by isotope dilution 503
– detmn. of iron(III) and nickel in steel and – 319
– detmn. of nickel in – by potentiometric titration with dimethylglyoxime 423
– detmn. of nitrogen in metals and – by biamperometric titration 422
– detmn. of nitrogen in niobium, titanium and – by biamperometric titration 422
– detmn. of oxide inclusions in aluminum-magnesium alloys, – by AAS/ spectrophotometry 421
Alloys
– detmn. of selenium and tellurium in silver-gold alloys, – by polarography 420
– detmn. of tin in – with cinnamoylphenyl-hydroxylamine by gravimetry 422
– detmn. of vanadium(V) and molybdenum(VI) in – and steel with thymolphthalexon by spectro-photometry 322
– detmn. of zinc in – by titration and complexometry 421
– detmn. of zirconium in – by derivative spectrophotometry 422
– reactions between copper and 14-membered tetraazamacrocycles in anal. of – 420
Alloys, nonferrous
– detmn. of aluminum in – by chelatometric titration 422
– detmn. of tin in – by chelatometric titration with HEDTA 422
Alloys, white-metal
– detmn. of Ag, Bi, Cd, Cu, Fe, Ni and Zn in solders, lead- and tin-base and – by AAS 321
Allyl isothiocyanate
– detmn. of –, 3-butene nitrile and acetic acid in mustard by GC 581
Alprazolam
– detmn. of – in blood by HPLC 348
Alprenolol
– detmn. of – in urine as oxazolidinone methyl carbonate by capillary GC 244
Alumina ceramics
– detmn. of magnesium in –, ceramics by AAS 323
Aluminum
– detmn. of calcium, – and antimony in poly-(vinyl chloride) by AAS 575
– detmn. of –, copper, iron and manganese as 8-quinolinol complexes by HPLC 317
– detmn. of copper, lead, thallium, cadmium and zinc traces in – by anodic stripping voltammetry 648
– detmn. of hydrogen in – and aluminum alloys by gas fusion-thermal conductivity method 421
– detmn. of – in alloys, nonferrous by chelatometric titration 422
– detmn. of – in blood plasma by AAS using a graphite boat 521
– detmn. of – in hemodialysis fluids by FIA and AAS 300
– detmn. of – in soil extracts by carbon arc emission spectrometry 579
– detmn. of – in water by flow-injection anal., comparison of 4 chromogenic reagents 334
– detmn. of – traces with pamoic acid by fluorimetry 411
– detmn. of uranium and thorium traces in – 421
– effect of solvation on reactions between –, gallium, indium, zinc, cadmium and azo compounds 212
Aluminum alloys
– detmn. of copper and zinc in – by chelatometric titration 395
– detmn. of copper in – with 5-Br-PADAP by extr.-spectrophotometry 648
– detmn. of hydrogen in aluminum and – by gas fusion-thermal conductivity method 421
– detmn. of trace elements in – by proton activation anal. 421
Aluminum-brass corrosion
– anal. of – products in sea water 427
Aluminum-magnesium alloys
– detmn. of oxide inclusions in –, alloys by AAS/ spectrophotometry 421
Amanitin
– detmn. of α- and β– in biological fluids by HPLC 349
Amberlite IR-120
– effect of temperature on adsorption of cadmium by – 628

Amberlite LA-2
– sepn. of gallium with – by solvent extr. 412
Americium
– sepn. of uranium, – and europium by extr. with LIX 64 317
Amikacin
– detmn. of kanamycin, gentamicin, –, amino-glycosides by d.c. polarography 518
Amines
– detmn. of – and ammonium salts, quaternary in multi-compound mixtures by extraction-spectrophotometry and thermochromism of ion-association complexes 484
– detmn. of – and hydrazines by spectro-photometry, oxidation with bis(trifluoracetoxy)-iodobenzene 501
– detmn. of moisture in – by Karl Fischer coulometric titration 499
– detmn. of – with trinitrobenzenesulfonic acid by differential pulse polarography 499
– sepn. of enantiomers of amphetamine and related – by HPLC 625
Amines, aliphatic
– detmn. of high molecular weight – by coulometry 499
– sepn. of – by ligand-exchange HPLC 498
Amines, aromatic
– sepn. of – and nitrogen compounds in HPLC on 3-(p-acetylphenoxy)propylsilane bonded phase 501
Amines, biogenic
– detmn. of – and metabolites in small rat brain regions by HPLC-EC method 234
– detmn. of – in brain tissue by HPLC with electrochem. detection 234
– detmn. of – in cheese by LC with amino acid autoanalyzer 584
– detmn. of – in foods by HPLC/thermo-sensitized reaction 581
– detmn. of – in wine by fluorimetry 430
Amines, polycyclic aromatic
– detmn. of – in skin by HPLC with electrochem. detection 528
Amines, sec.
– derivatization of – with 2-naphthalenesulfonyl chloride for HPLC anal. of spectinomycin 231
Amino acid enantiomers
– sepn. of – as dansyl derivatives by TLC 417
– sepn. of – by chromatography, ligand exchange 343
– sepn. of – by LC on immobilized protein stationary phases 343
– sepn. of N-protected – as O-(4-nitrobenzyl) -tyrosinemethylesters by HPLC 417
Amino acids
– 1-ethyl-2,3,5-triacetylbenzol as reagent for – 561
– anal. of – as N-heptafluorobutyric esters by GC with N-selective detector 523
– anal. of – as tert.-butyldimethylsilyl derivatives by GC 523
– anal. of – as tert.-butyldimethylsilyl derivatives by GLC/MS 523
– anal. of – by SI mass spectrometry in glycerol solution 417
– anal. of – of stained peptides and proteins from a sodium dodecyl sulfate-polyacrylamide slab gel 438
– anal. of – using micropacked columns by quant. chromatography, gas 500
– detmn. of 26 free – in human blood plasma by HPLC 476
– detmn. of aminobutyric acids in presence of protein and non-protein – by GC and TLC 438
– detmn. of –, aminoethylcysteine with amino acid analyzer, single-column sepn. 343
– detmn. of branched-chain – in blood plasma by enzymatic spectrophotometry 437
– detmn. of – by autoanalyzer, comparison of internal and external standard 342
Amino acids
– detmn. of enantiomeric ratios of – by GC 235
– detmn. of free – in biological materials by ultra rapid HPLC 437
– detmn. of – in sorghum grains, feeds by amino acid analyzer 337
– detmn. of phenylthiocarbamyl amino acids, – by reversed-phase HPLC 343
– fluorescent labelling of – with 9-anthryldiazo-methane 217
– ident. of – as 2,4-dinitrophenyl esters by NICI-MS 437
– mediated amperometric biosensors for D-galactose, glycolate and L– 587
– resolution of aliphatic 2,4-dinitrophenyl-D,L– on cellulose columns 417
– retention of aromatic – on vinylpyridine polymer in LC 405
– sepn. of – as dimethylaminoazobenzene-sulfonyl derivatives by PC 591
– sepn. of – as o-phthalaldehyde derivatives in protein hydrolysates by reversed-phase HPLC 235
– sepn. of – by electrophoresis, thin-layer, with cooling plate 207
– sepn. of DABTH and DABS – by HPLC 234
– sepn. of diastereomeric – by supercritical fluid chromatography with chiral phases 591
– sepn. of enantiomers of N-acyl – without preceding derivatisation 559
– sepn. of phenylthiohydantion– in proteins and peptides by fast protein LC 522
Amino acids, nucleo
– detmn. of – by ion chromatography 239
Amino acids, sec.
– detmn. of – by HPLC, derivatisation in pre-column 591
Amino acids, sulfur
– detmn. of adenosine and S-adenosyl derivatives of – in tissues, animal by HPLC 239
Amino alcohols
– sepn. of enantiomeric –, epinephrine and analogues by capillary GC after derivatization with diazomethane and phosgene 517
Aminoarenes
– detmn. of azaarenes and – in diesel exhaust by LC 426
2-Aminobenzoic acid
– detmn. of cyanate in biological fluids with – by spectrophotometry 341
Aminobenzophenone
– phosphorescence charact. of acetophenone, benzophenone, p– and Michler's ketone 221
Aminobutyric acids
– detmn. of – in presence of protein and non-protein amino acids by GC and TLC 438
Amino compounds
– detmn. of – in pharmaceutical products by room temperature phosphorescence 515
1-Aminocyclopropane-1-carboxylic acid
– detmn. of – in tomatoes by isotope dilution MS 225
Aminodiphenylamines
– detmn. of – by polarography 508
Aminoethylcysteine
– detmn. of amino acids, – with amino acid analyzer, single-column sepn. 343
Aminoglycosides
– detmn. of kanamycin, gentamicin, amikacin, – by d.c. polarography 518
Amino groups
– quantitation of – on supports, solid, gels by spectrofluorimetry 652
β-Aminoisobutyric acid
– detmn. of – in urine and blood serum by HPLC 235
5-Aminolevulinic acid
– detmn. of – in biological materials by HPLC 344
δ-Aminolevulinic acid
– detection of –, porphobilinogen and porphyrins by HPLC 441
4-Amino-1-naphthalenesulfonic acid
– detmn. of nitrite in water with – by spectro-photometry 512
Aminonaphtholsulfonates
– selectivity of spectrophotometry titration of some – 327
Aminonaphthyl-8-sulfonic acid
– complexation of acetylated and araminated peri-acids with barium ions and spectro-photometric titration of – derivatives 327
Amino nitrogen
– detmn. of – in soils by reversed-phase HPLC 578
16(S)-amino PFG_2 methylester
– selective trimethylsilylation for detmn. of – by GLC 239
Aminophosphonic acids
– derivatization of – for HPLC 344
Aminopolycarboxylato ligands
– enrichment of metal ions using – bound to cellulose 574
Aminopyrine
– detmn. of – in blood plasma by HPLC 443
Amino steroids
– sepn. of bis-quaternary – by HPLC on chemically bonded silica phases 219
Amino sugars
– detmn. of muramic acid and – by capillary GC/MS, acetylation methods 345
β-Aminovinylthionates
– GLC of nickel – 215
Amiodarone
– anal. of – and desethylamiodarone in biological fluids by HPLC 244
Amitriptyline
– detmn. of chlorpromazine, –, propantheline and meperidine by electrodes, ion-selective, prep. of liquid membranes 517
– electrochem. detection of –, nortriptyline, imipramine, carbamazepine, tricyclic drugs at polymer electrodes 434
Ammonia
– detmn. of – in bacteria 521
– detmn. of – in sediments and soils with ISE 337
Ammonia/calcium exchange curves
– evaluation of – for soils 337
Ammonia oxypropylation products
– anal. of – by GC 574
Ammonium
– potentiometric detmn. of potassium and – ions in the presence of each other 211
Ammonium ions, quaternary
– detmn. of – as cobalt-thiocyanate complexes by densitometry 327
Ammonium salts, quaternary
– detmn. of amines and – in multi-compound mixtures by extraction-spectrophotometry and thermochromism of ion-association complexes 484
Amodiaquine
– detmn. of chloroquine, – and metabolites in blood, red blood cells and urine by HPLC 446
Amoxicillin
– detmn. of ampicillin, – and ciclacillin in blood serum and urine by HPLC, pre-column derivatization 246
– detmn. of – in biological fluids by HPLC with post-column derivatization 246
Amperometric titration
– detmn. of organic compounds by – 314
Amphetamine
– detection of α-benzylphenethylamine and α-benzyl-N-methylphenethylamine in – samples by LC 519
– sepn. of enantiomers of – and related amines by HPLC 625

Ampholytes
– sepn. of – by isoelectric focusing, the plateau phenomenon 207
Ampicillin
– detmn. of –, amoxicillin and ciclacillin in blood serum and urine by HPLC, pre-column derivatization 246
– detmn. of – in blood plasma by paired ion HPLC 246
– detmn. of penicillin G, penicillin V and – in milk by HPLC 583
α-Amylase
– detmn. of – in blood serum and urine by continuous-flow potentiometric method 241
– detmn. of – with new substrate 2-chloro-4-nitrophenyl-β-D-maltoheptaoside 529
Anabolics
– detection of –, steroids in urine by capillary GC/MS 347
Analgesics
– anal. of – in tablets by HPTLC 433
– detmn. of ciramadol, dezocine, – by HPLC with electrochem. detection 593
Analyst's pocket-book
– , Vol. 6 399
Analytical calculations
– , new techniques 638
Analytical chemistry
– advantages of information theory in –, book 483
– masking methods in –, review 492
Analytical data
– scaling of – 210
5α-Androst-16-en-3-one
– detmn. of – in fats by capillary GC with ECD 226
Anesthetics
– sepn. of – and aerosol pollutants in operating room air by GC 233
1-Anilinonaphthalene-8-sulfonate
– prep. of intrinsic fibre-optic biosensors, binding of – at borosilicate glass surface 587
2-Anilino-naphthalene-6-sulfonic acid
– detmn. of biotin and avidin with – by fluorimetry 525
Anions
– detmn. of – and cations by simultaneous chromatography, ion 307
– detmn. of – in cooling tower waste water by ion chromatography 512
– ion-exchange minicolumns in a flow injection analysis system for detmn. of – 492
– sepn. of – by chromatography, gluconate/borate mixtures as eluents 569
– sepn. of inorganic and organic – by chromatography, ion on methacrylic copolymer matrix 307
– sepn. of – on silica gels coated with cross-linked poly-dibenzo-18-crown-6 126
– trace anal. of – by backflush method in chromatography, ion 307
Anions, inorganic
– detmn. of – as pentafluorobenzyl-p-toluene-sulfonate derivatives by GC/ECD 413
– detmn. of – by chromatography, ion-pair 405
– detmn. of – in water extracts of plants and soils by ion chromatography 337
– detmn. of – in wood of spruce stems by ion-chromatography 73
– sepn. of – by non-suppressed chromatography, ion, origin and elimination of system peaks 307
Anthraquinone disulfonic acid dyes
– detmn. of – in process solutions by temperature programmed HPLC 329
9-Anthryldiazomethane
– fluorescent labelling of amino acids with – 217
– HPLC anal. of arachidonic acid metabolites by pre-column derivatisation using – 592
Antibiotics
– detmn. of – by indirect spectrophotometry with iodine or periodate 434
– detmn. of phosphinothricin, – in biological cultures by HPLC after derivatization 434
– isol. of – by countercurrent chromatography with coil planet centrifuge 517
Antibodies
– methods of enzymatic analysis, Vol. X: antigens and –, book 563
Anticancer drugs
– anal. of – by thermospray HPLC/MS 517
Antiepileptics
– detmn. of – in blood plasma by capillary GC, new drug 594
Antifreeze solutions
– detmn. of ethylene glycol in – and motor oils by HPLC as iodate 224
Anti-2-furaldehyde 2-pyridylhydrazone
– detmn. of nickel with – by photometry 655
Antigens
– methods of enzymatic analysis, Vol. X: – and antibodies, book 563
Antimony
– cast iron reference material, certification for – and lead 163
– detmn. of – and arsenic in technical solutions, factors affecting graphite furnace AAS 505
– detmn. of arsenic, – and bismuth in steel by hydride generation ICP-AES 648
– detmn. of arsenic and – by AAS using a small hydride generator 645
– detmn. of arsenic, – and palladium using morpholine-4-carbodihioate as amperometric titrant 495
– detmn. of arsenic in – by spectrophotometry, arsenic-molybdic blue 422
– detmn. of – by solvent extr.-spectrophotometry 495
– detmn. of calcium, aluminum and – in poly-(vinyl chloride) by AAS 575
– detmn. of – in biological materials, comparison of voltammetry and AAS 341
– detmn. of – in lead-acid cells by titration or AAS 425
– detmn. of – in urine by candoluminescence 589
– detmn. of total – in marine organisms and water by stibine generation AAS 659
– detmn. of volatile hydrides of phosphorus, arsenic, –, selenium and tin by photochemical reaction/light-scattering 645
– poly- and monocrystalline –, iridium and palladium as materials for electrodes, pH-sensing 572
Antimony(III)
– detmn. of copper(II), cerium(VI) and – in pyrrolidone-2 solution by polarography 410
Antioxidants
– anal. of – in oils, edible and fats by HPLC 582
– anal. of polyolefinic –, Goodrite 3114 223
Antipyretics
– detmn. of – by semimicro HPLC 515
– HPLC of – on chemically modified porous glass 230
Antipyrine hydroxyazo reagents
– NMR ^{13}C spectra and structure of some – in solution 493
Arachidonic acid metabolites
– HPLC anal. of – by pre-column derivatisation using 9-anthryldiazomethane 592
Aromatic acids
– sepn. of – by LC, prediction of retention 218
Arsenate
– detmn. of arsenite, – and phosphate in mixtures by FIA 645
Arsenic
– anal. of high purity – by spark-source MS 648
– cast iron reference material, certification for antimony, –, bismuth and lead 163
– detmn. of – and antimony by AAS using a small hydride generator 645
Arsenic
– detmn. of –, antimony and bismuth in steel by hydride generation ICP-AES 648
– detmn. of antimony and – in technical solutions, factors affecting graphite furnace AAS 505
– detmn. of –, antimony and palladium using morpholine-4-carbodihioate as amperometric titrant 495
– detmn. of – by AAS, volatile covalent hydride generation 171
– detmn. of –(III) and (V) in natural water by extr. and NAA 659
– detmn. of – in antimony by spectrophotometry, arsenic-molybdic blue 422
– detmn. of – in blood by AAS, matrix modification 341
– detmn. of volatile hydrides of phosphorus, –, antimony, selenium and tin by photochemical reaction/light-scattering 645
– transition metal interferences in hydride generation spectrometry, atomic absorption of – and selenium 484
Arsenic(III)/copper(II)
– behavior of – system components for stripping voltammetry 315
Arsenicorgano compounds
– detmn. of mercuryorgano compounds and – in water and air by GC/AAS 369
Arsenite
– detmn. of –, arsenate and phosphate in mixtures by FIA 645
Aryl oxalates
– detection of hydrogen peroxide and fluorescent compounds, new – for peroxyoxalate chemiluminescence reactions 632
– for detector, chemiluminescence in chromatography, HPLC 308
Arylsulfonic acid hydrazides
– detmn. of – by photometry 500
Ascorbate oxidase
– detmn. of ascorbic acid in blood plasma and fruit juices with – 228
Ascorbic acid
– detmn. of – and uric acid in biological fluids by HPLC with ECD 593
– detmn. of – by FIA, starch/KI or methyl red/KBr reaction 580
– detmn. of –, dehydroascorbic acid and isoascorbic acid in blood by HPLC 473
– detmn. of – in blood plasma and fruit juices with ascorbate oxidase 228
– detmn. of – in citrus fruits by spectrophotometry as Fe(II)-dimethylglyoxime complex 430
– detmn. of – in pharmaceutical products and fruit juices by spectrophotometry, as Cu(I) with neocuproin 580
– detmn. of – in soft drinks and fruit juices by UV spectrometry 228
– detmn. of water and – in dry fruits by coulometry 580
Asparagine
– detmn. of DL– by GC 437
Aspartame
– anal. of – in sweeteners by HPLC 226
Association of official analytical chemists
– , official methods of analysis 629
Astatin
– Gmelin handbook, – 401
Atmospheric liquid samples
– detmn. of carbonyl compounds – by HPLC 655
Automotive paints
– anal. of – by pyrolysis GC/MS 508
Autoradiography
– chromatography, HPLC, automated collection of effluent for – 311
Autostandby switch
– for the Perkin-Elmer model 5000 spectrometry, atomic absorption 200

Avidin
– detmn. of biotin and – with 2-anilino-naphthalene-6-sulfonic acid by fluorimetry 525
Avoparcin
– detmn. of – in feeds, interferences by other feed additives 578
Azaarenes
– detmn. of – and aminoarenes in diesel exhaust by LC 426
Azide
– detmn. of – ion with cerium and Arsenazo III by spectrophotometry 213
Azo compounds
– detmn. of – by polarography 219
– effect of solvation on reactions between aluminum, gallium, indium, zinc, cadmium and – 212
Azopigments
– detmn. of – by polarography, after TLC 329
Azure A
– detection of sulfolipids with – by TLC 237

B

Backflush method
– trace anal. of anions by – in chromatography, ion 307
Background intensities
– spectrometry, dual optic simultaneous (DOSS) for measurement of – in spectrometry, ICP-AES 88
Baclofen
– detmn. of – in pharmaceutical products by fluorimetry 231
Bacon
– new involatile N-nitroso compounds in smoked – 227
Bacteria
– detmn. of ammonia in – 521
– detmn. of fatty acid composition of endotoxins from – by GC 342
– investigation of toxicity, microbial of chlorophenols by bioluminescence of – 136
Barbiturates
– detmn. of – by GC with FT ion mobility detector 433
– sepn. of – by TLC on impregnated plates 230
– sepn. of – in presence of soluble β-cyclodextrin by reversed-phase TLC 230
Barbituric acid
– detmn. of – and thiobarbituric acid by spectrophotometry 230
Barium
– anal. of – in marine sediments by NAA 512
– detmn. of poly(ethylene glycols), – and sulfate ions using ion-selective electrode 507
– sepn. of cesium, strontium and – by extr. as dicarbollylcobaltate-EDTA-PEG complex 211
Bases
– detmn. of acids and – by peak width measurements in flow injection analysis 637
– detmn. of acids, –, metal ions and redox species by peak width measurements in flow injection analysis 637
Beef liver
– detmn. of monensin sodium in – by LC, as fluorescent derivative 227
Bees
– detmn. of carbaryl in – and pollen by HPLC 585
Benzalkonium chlorides
– anal. of – by GC 651
Benzene
– detmn. of – in blood by UV spectrometry 349
– detmn. of methyl t-butyl ether, –, toluene and ethanol in gasoline by LC 326
– detmn. of tetrachloromethane, chloroform, 1,2-dichloroethane and – in germanium tetrachloride by GC 504
Benzene
– sepn. of – and benzene, deuterated by chromatography, HPLC, two-column recycle method 218
Benzene, deuterated
– sepn. of benzene and – by chromatography, HPLC, two-column recycle method 218
Benzenes, chlorinated
– detmn. of – in fuel oils by on-line LC/GC 221
Benzimidazoles
– molecular luminescence of some benzoylbenz-imidazoles and related – 433
Benzisoquinolinedione
– assay for –, nafidimide in blood plasma and urine by reversed-phase HPLC 246
– detmn. of –, nafidimide in biological fluids by HPLC 246
Benzodiazepines
– anal. of – in blood serum by enzyme immuno-assay EMIT-TOX 348
Benzoic acid
– detmn. of sorbic acid and – in sugar products by extr. spectrophotometry 581
Benzophenone
– phosphorescence charact. of acetophenone, –, p-aminobenzophenone and Michler's ketone 221
Benzo(a)pyrene
– detmn. of – and metabolites in urine by HPLC 596
Benzothiadiazines
– measurement of acidity constants of –, use of a membrane phase-separator 418
Benzothiazoles
– detmn. of –, β-sitosterol leached from disposable syringes by TLC 652
Benzoylbenzimidazoles
– molecular luminescence of some – and related benzimidazoles 433
Benzoylecgonine
– detmn. of – in urine by capillary GC 595
α-Benzyl-N-methylphenethylamine
– detection of α-benzylphenethylamine and – in amphetamine samples by LC 519
α-Benzylphenethylamine
– detection of – and α-benzyl-N-methylphenethyl-amine in amphetamine samples by LC 519
Beprodil
– detmn. of – in blood plasma by capillary GC/NPD 593
Beryllium
– sepn. of – by extr.-chromatography with Aliquat 336S as stationary phase 211
Betamethasone
– anal. of dexamethasone and – in tablets by TLC 435
Bezafibrate
– detmn. of – in blood plasma and urine by HPLC 527
Biacetyl(2-pyridyl)hydrazone thiosemicarbazone
– study of – as reagent for spectrophotometry 493
Bile
– anal. of bilirubin conjugates in – by column LC 440
– detmn. of conjugated bile acids in blood serum and – by HPLC, new internal standard 347
– detmn. of lipids in – on chromarods 237
– ident. of bile alcohols in – by LC and GC/MS 440
Bile acid 3-glucuronides
– sepn. of – by HPLC 596
Bile acids
– detmn. of – and lysolecithin in gastric juice by HPLC 347
– detmn. of conjugated – in blood serum and bile by HPLC, new internal standard 347
– ident. of – and 5β-cholanoic acid by two-dimensional spectrometry, NMR 440
– sepn. of – and sterols by HPLC with microbore column 347
Bile alcohols
– ident. of – in bile by LC and GC/MS 440
Bilirubin
– anal. of – conjugates in bile by column LC 440
– minimisation of – interference in the detmn. of fluorescein using first-derivative synchronous excitation fluorescence spectrophotometry 588
Bilirubins
– sepn. of – in biological fluids by reversed-phase HPLC 596
Binaphthols
– sepn. of – by chromatography, HPLC, cinchona alkaloids for preparing new chiral phases 569
Biochemical systems
– studies of interacting – in flow injection analysis 435
Biochemistry
– chromatography, HPLC in –, book 399
Biological compounds
– anal. of – by chromatography, liquid, dynamically modified capillary columns 339
Biological cultures
– detmn. of phosphinothricin, antibiotics in – by HPLC after derivatization 434
Biological fluids
– anal. of amiodarone and desethylamiodarone in – by HPLC 244
– anal. of –, losses by ultrafiltration preconc. 519
– anal. of penicillins in – by HPLC, review 445
– anal. of protein traces in sea water and – by automated fluorescence assay 660
– assay of mitomycin in – by HPLC 527
– detmn. of 2,3-dimercaptopropane-1-sulfonic acid and other dithiols in – by HPLC, as bromo-bimane derivatives 448
– detmn. of 4-demethoxydaunorubicin and metabolites in – by reversed-phase HPLC 245
– detmn. of α- and β-amanitin in – by HPLC 349
– detmn. of acetone in – by HPLC/GC 522
– detmn. of alfuzosin in – by HPLC/fluorimetry 446
– detmn. of amoxicillin in – by HPLC with post-column derivatization 246
– detmn. of ascorbic acid and uric acid in – by HPLC with ECD 593
– detmn. of benzisoquinolinedione, nafidimide in – by HPLC 246
– detmn. of creatinine in – by enzymatic FIA 523
– detmn. of cyanate in – with 2-aminobenzoic acid by spectrophotometry 341
– detmn. of diamines and polyamines in – by chemiluminescence 522
– detmn. of dimethylaminohydroxypropoxy-triamterene in – by TLC 443
– detmn. of dimethylglycine in – by HPLC with enzymatic detection 343
– detmn. of drugs, basic in – by extr. and dual capillary GC/NPD 593
– detmn. of free and conjugated catecholamines in – by HPLC 590
– detmn. of iodine in – by radiochemical NAA 341
– detmn. of lorapride in – by HPLC 444
– detmn. of purines and pyrimidines in – by reversed-phase HPLC 239
– detmn. of serine proteases in – by electrophoresis, gel, detection by chromogenic substrate autography 529
– detmn. of uric acid in – using bienzyme electrodes 233
– detmn. of vinca-alkaloids in – by HPLC 446
– detmn. of vitamin A and vitamin E in – by HPLC 238
– enantiospecific HPLC anal. of 2-phenyl-propionic acid, ketoprofen and fenoprofen in – 243
– quant. elemental anal. of – using mass spectrometry, laser 520

Biological fluids
- radioimmunoassay for human deoxyribonucleases I in – 530
- sample pretreatment in trace detmn. of drugs in – 348
- sepn. of bilirubins in – by reversed-phase HPLC 596
- stereospecific detmn. of oxindazac in pharmaceutical products, – by HPLC 230

Biological materials
- anal. of (E)-5-(2-bromovinyl)-2′-deoxyuridine in – by HPLC 529
- anal. of hazardous substances in –, Vol. 1, book 481
- anal. of hydrocarbons, chlorinated in –, expert discussion 351
- detmn. of 2-nitroimidazole benznidazole in – by HPLC 595
- detmn. of 5-aminolevulinic acid in – by HPLC 344
- detmn. of β-phenylethylamine in – by HPLC/fluorimetry 234
- detmn. of antimony in –, comparison of voltammetry and AAS 341
- detmn. of calcium in – by electrodes, ion-selective, minielectrode with microincubation chamber 314
- detmn. of calmodulin in – by competitive binding assay 438
- detmn. of chlorine in – by oxygen-flask combustion and GC 341
- detmn. of elements in – spectrometry, X-ray fluorescence, sample prep. by carbonisation technique 340
- detmn. of free amino acids in – by ultra rapid HPLC 437
- detmn. of histidine and methylhistidines in – by HPLC 236
- detmn. of hydroxytoluene, butylated in – by HPLC 349
- detmn. of inorganic pyrophosphate in – by continuous enzymatic monitoring 233
- detmn. of lead and cadmium in small amounts of – by EAAS 521
- detmn. of lidocaine and metabolites in – by HPLC 442
- detmn. of lysophosphatidylcholine in – by LC, TLC and radiometric method 440
- detmn. of malondialdehyde in – by HPLC 233
- detmn. of manganese in – by AAS 521
- detmn. of methylamines in – using microelectrodes 234
- detmn. of methylmercury in – by headspace GC 340
- detmn. of nickel and cobalt in –, fish by voltammetry 514
- detmn. of silver grains in autoradiograms of – using 5-(4-dimethylaminobenzylidene) rhodanine 520
- detmn. of strontium in – by proton activation anal. and isotope dilution 340
- detmn. of total lead and trimethyl lead in – by HPLC and AAS 521
- detmn. of trace elements in – and coals by inverse voltammetry and AAS, sample combustion in oxygen stream 32
- detmn. of trace elements in – by epithermal NAA 588
- detmn. of trospium in – by fluorimetry after derivatization 528
- detmn. of type VI collagen in – by radioimmunoassay 345
- detmn. of vanadium traces in – by ion exchange/spectrophotometry 521
- detmn. of vitamin B_2 in – by HPLC 593
- detmn. of vitamin B_6 in – by isotope dilution/MS 525
- detmn. of volatile and non-volatile organic acids in – by capillary GC 342

Biological materials
- estim. of relative interpackage standard deviations for standard reference materials of – 520
- kinetic detmn. of selenium in – 233
- microwave-aided dissolution of – in AAS sample cups 232
- suppress. of light emission instability in case of high-current dc arc excitation in – 561

Biological tissues
- detmn. of acrolein in – by HPLC 447
- detmn. of chlordimeform and demethylchlordimeform in – by GC 596
- detmn. of copper in – with (Z)-2-thiophenaldehyde-2-pyridylhydrazone by spectrophotometry 588
- detmn. of opiates in – by immunoassay, thin-layer 348
- detmn. of trace metals in marine sediments and – using STPF-AAS 330
- enzymatic estim. of hydroxyproline in – 343

Bioluminescence
- investigation of toxicity, microbial of chlorophenols by – of bacteria 136

Biomass
- anal. of lignin degradation products in – hydrolyzates using GC-MS and HPLC 461

Biomolecules
- laser desorption/mass spectrometry, FT for the study of – 201
- laser desorption/mass spectrometry, FT for the study of –, reproducibility and extent of fragmentation of laser-desorbed ions 201

Bioorganics
- derivatization of drugs and – for improved detection by chromatography, gas 432

Biosensors
- integrated optical – 436
- mediated amperometric – for D-galactose, glycolate and L-amino acids 587
- prep. of intrinsic fibre-optic –, binding of 1-anilinonaphthalene-8-sulfonate at borosilicate glass surface 587
- prototype potentiometric – using intact chemoreceptor structures 587

Biotin
- detmn. of – and avidin with 2-anilinonaphthalene-6-sulfonic acid by fluorimetry 525
- detmn. of – in pharmaceutical products in HPLC with electrochem. detection 514

Biotinyl proteins
- detection of –, proteins in plant extracts with streptavidin after gel electrophoresis 335

Biphenyl biscatecholylazo derivatives
- complex formation of – with metal ions 409

Biphenyls, polychlorinated
- detmn. of – by GC, new injection port 335
- detmn. of chlorine in organochlorine pesticides and – by MECA 339

Bisarenechromium compounds
- potentiometric titration of – in waste water 513

N,N′-Bis(4-azidobenzoyl) cystine
- labelling of proteins with new photoaffinity reagents, – 344

4,4′-Bis(catecholazo) biphenyl
- effect of temperature of complexation in a gallium– system 212

2,6-Bis(chloromethyl)pyridine
- sepn. of 2,6-dimethylpyridine and – by GC 230

1,5-Bis(di-2-pyridylmethylene)thiocarbonohydrazide
- detmn. of cobalt and nickel with – by spectrophotometry 319

α,ω-Bis(methacryloyl)oligoethyleneglycol phthalates
- studies of the structure of – 507

Bismuth
- cast iron reference material, certification for antimony, arsenic, – and lead 163

Bismuth
- detmn. of arsenic, antimony and – in steel by hydride generation ICP-AES 648
- detmn. of – by chelatometric titration with HEDTA 422
- detmn. of – by peak chromatography (paper) 412
- detmn. of – by stripping anal. of copper alloys, elimination of interferences 413
- detmn. of – by voltammetry with decylmercaptan modified carbon paste electrode 186
- detmn. of – in copper by hydride generation AAS 648
- detmn. of – in galvanic baths using a iodobismuthate electrode 324
- detmn. of – in steel, alloys and waste water with 2-(4,5-methylthiazolyl-2-azo)-5-diethylaminophenol by spectrophotometry 322
- detmn. of lead and – in ores by complexometry, extr. with fatty acids 331
- sepn. of – from other metals by chromatography, thin-layer on hydrous zirconium oxide 407
- sepn. of DCTA chelates of –, iron(III) and copper(II) by reversed-phase paired-ion chromatography 318

Bis-pyridinium aldoximes
- electrochem. investigation of – 419

Biuret
- detmn. of – in urea and fertilizers by cupric ion-selective electrode 579

Blood
- assay of methyl methacrylate in – by headspace capillary GC 349
- detmn. of 1,3-butylene glycol in – by GC 590
- detmn. of 2,4,6-trinitrotoluene in – by HPLC 447
- detmn. of 7-dehydrocholesterol in – by HPLC 440
- detmn. of γ-glutamyltransferase in – by spectrophotometry 242
- detmn. of alprazolam in – by HPLC 348
- detmn. of arsenic in – by AAS, matrix modification 341
- detmn. of ascorbic acid, dehydroascorbic acid and isoascorbic acid in – by HPLC 473
- detmn. of benzene in – by UV spectrometry 349
- detmn. of cadmium in – by spectrometry, atomic absorption, furnace atomic non-thermal excitation 589
- detmn. of carbon monoxide in –, losses in storage 342
- detmn. of chloroquine, amodiaquine and metabolites in –, red blood cells and urine by HPLC 446
- detmn. of choline in – by chemiluminescence 234
- detmn. of copper, zinc and iron in whole – by AAS 521
- detmn. of cyanide in – by Conway microdiffusion 522
- detmn. of cyclosporin A in – by HPLC 446
- detmn. of cyclosporine in – and kidney tissue by HPLC 594
- detmn. of cyclosporin in – by HPLC 445
- detmn. of cysteine and glutathione in – by LC with electrochem. detection 235
- detmn. of ethanol in – by fluorescence-quenching, REA-method 342
- detmn. of glucose in – by photoacoustic spectrometry 236
- detmn. of glucose in –, enzyme electrode with glucose dehydrogenase 346
- detmn. of hydroxychloroquine and metabolites in – and blood plasma by HPLC/fluorimetry 348
- detmn. of metals in – by flame atomic fluorescence and atomic emission spectrometry 340

Blood
- detmn. of methamphetamine in – by UV spectrophotometry, elimination of interfering compounds 447
- detmn. of methylmercury and ethylmercury in – and tissues by capillary GC with ECD 447
- detmn. of thyroxine in – by fluorescent enzyme immunoassay 448
- detmn. of urea nitrogen in – with o-phthalaldehyde, interference monoclonal proteins 590
- detmn. of zinc in – by Zeeman AAS 340
- measurement of cyclosporin in – by charcoal adsorption and HPLC 445
- stereospecific anal. of hexobarbital in – by capillary GC 444

Blood cells
- detmn. of chloroquine, amodiaquine and metabolites in blood, red – and urine by HPLC 446

Blood grouping
- detmn. of D^u, – by continuous spectrophotometry 588

Blood plasma
- anal. of 10-deazaaminopterin, 10-ethyl-10-deazaaminopterin in – and urine by HPLC/fluorimetry 445
- anal. of cyclophosphamide in – by capillary GC/NPD, silica sample purification 595
- anal. of drugs in – by automated HPLC 593
- anal. of fatty acid esters in – by HPLC and GLC, comparison of methods 439
- anal. of n-hexane, 2-hexanone, 2,5-hexanedion in – by capillary GC and HPLC 349
- anal. of trazodone and chlorophenylpiperazine, m- in – and brain tissue by HPLC 594
- anal. of tryptophan metabolites in – by HPLC 343
- assay for benzisoquinolinedione, nafidimide in – and urine by reversed-phase HPLC 246
- assay for doxapram in urine and – by capillary GC with N-P detection 245
- assay for oxcarbazepine and metabolites in – by GC 444
- assay of methadone in – by capillary GC with photoionization detection 447
- assay of propranolol and metabolites in – by HPLC 526
- detmn. of 5-(4-acetamidophenyl)pyrazin-2(1H)-one in – by HPLC 593
- detmn. of 5-fluorouracil in – by capillary GC/MS 444
- detmn. of 5-fluorouracil in – by HPLC 445
- detmn. of 26 free amino acids in human – by HPLC 476
- detmn. of acivicin in – by GC/MS 245
- detmn. of adriamycin in –, cell cultures by HPLC/fluorimetry 445
- detmn. of alizapride in – by HPLC 243
- detmn. of aluminum in – by AAS using a graphite boat 521
- detmn. of aminopyrine in – by HPLC 443
- detmn. of ampicillin in – by paired ion HPLC 246
- detmn. of antiepileptics in – by capillary GC, new drug 594
- detmn. of ascorbic acid in – and fruit juices with ascorbate oxidase 228
- detmn. of beprodil in – by capillary GC/NPD 593
- detmn. of bezafibrate in – and urine by HPLC 527
- detmn. of branched-chain amino acids in – by enzymatic spectrophotometry 437
- detmn. of bromazepam in – by HPLC 348
- detmn. of buspirone in – by capillary GC/MS 526
- detmn. of caffeine in human breast milk and – by GLC 595
- detmn. of chromium in urine and – of steel welders, evidence of toxicity 341

Blood plasma
- detmn. of clavulanic acid and sulbactam in – and urine by HPLC 246
- detmn. of clofibric acid in – by HPLC 446
- detmn. of cyanamide in – by HPLC 595
- detmn. of dexamethasone in – and urine by electron-impact MS 528
- detmn. of dialkyltriazene and metabolites in – by reversed-phase HPLC 245
- detmn. of diltiazem and metabolites in – by HPLC 244
- detmn. of dipipanone in – and urine by HPLC 528
- detmn. of dobutamine in – by HPLC 245
- detmn. of doxorubicin in – by radial compression HPLC 527
- detmn. of enoxacin and metabolite in –, urine and saliva by HPLC 245
- detmn. of ethiofos in – by HPLC 596
- detmn. of flunarizine in – by HPLC 594
- detmn. of free fatty acids in – by HPLC 237
- detmn. of gallamine in – by HPLC 443
- detmn. of gemfibrozil in – by HPLC 443
- detmn. of gossypol in – by HPLC with electrochem. detection 528
- detmn. of hydrochlorothiazide in – by HPLC 593
- detmn. of hydroxychloroquine and metabolites in blood and – by HPLC/fluorimetry 348
- detmn. of hydroxychoroquine and metabolites in – by HPLC 595
- detmn. of insulin in –, failure of ultracentrifugation 347
- detmn. of josamycin in –, erythrocytes and leucocytes by HPLC, alternating clean-up columns 527
- detmn. of lactate in – by enzymatic spectrophotometry 590
- detmn. of lenperone in – by HPLC 245
- detmn. of levodopa and 3-O-methyldopa in – by HPLC/coulometry 444
- detmn. of long-chain fatty acids in – by GC/MS 342
- detmn. of lormetazepam in – by GC/ECD 594
- detmn. of mexiletine in – by HPLC 444
- detmn. of N-acetylcysteine in –, comparison of electrochem. detection methods in LC 438
- detmn. of nitroglycerine in – by GLC using ECD 244
- detmn. of oxalate in – by enzymatic bioluminescent assay 436
- detmn. of pentoxifylline in – by HPLC 528
- detmn. of pinacidil in – by HPLC 443
- detmn. of piquindone in – and urine by HPLC 444
- detmn. of prokallikrein in – by automated method 448
- detmn. of propranolol in – by HPLC 443
- detmn. of pyridoxal 5′-phosphate in – by HPLC 238
- detmn. of retinoic acid in – by GC/MS 525
- detmn. of ryosidine in – by GLC 526
- detmn. of salbutamol in – and urine by HPTLC 526
- detmn. of spiramycin in – by automated HPLC 246
- detmn. of tenoxicam in – by HPLC 593
- detmn. of tranilast and metabolites in – and urine by HPLC 526
- detmn. of tranylcypromine in – by GC/CI-MS 528
- detmn. of vincamine in – by capillary GC 447
- detmn. of vitamin B_6 in human milk and – by HPLC 238
- detmn. of vitamin K_1 in – by HPLC 525
- detmn. of zinc in – by AAS 340
- sepn. of spironolactone and metabolites in – by HPLC/UV detection 443
- ultramicro assay for human – prekallikrein activity 448

Blood serum
- anal. of benzodiazepines in – by enzyme immunoassay EMIT-TOX 348
- anal. of lactate dehydrogenase isoenzyme in – by HPLC 242
- assay of triethylenethiophosphoramide in – and urine by GC 527
- detmn. of 25-hydroxyvitamin D in – by radiometric method 525
- detmn. of α-amylase in – and urine by continuous-flow potentiometric method 241
- detmn. of α-L-(13)-fucosyltransferase in – with N-acetyl-2′-O-methyllactosamine as acceptor 242
- detmn. of β-aminoisobutyric acid in urine and – by HPLC 235
- detmn. of albumin in human – with chrome azurol S by fluorimetry 236
- detmn. of alcohol dehydrogenase in – by differential pulse polarography 529
- detmn. of ampicillin, amoxicillin and ciclacillin in – and urine by HPLC, pre-column derivatization 246
- detmn. of carbenicillin, ticarcillin and sulbenicillin in – and urine by HPLC 527
- detmn. of chloride in – and urine by diffusion of HCl/Cl^--sensitive electrode 341
- detmn. of cholesterol in – by precipitation with polyethyleneglycol 524
- detmn. of conjugated bile acids in – and bile by HPLC, new internal standard 347
- detmn. of creatinine in – and urine by bioluminescence method in continuous flow mode 437
- detmn. of dextropropoxyphene and nordextropropoxyphene in – by HPLC 349
- detmn. of ethanol in – by radioactive energy attenuation assay 590
- detmn. of formate in – by enzymatic spectrophotometry 590
- detmn. of free fatty acids in – by HPLC with fluorescence detection 439
- detmn. of hyaluronic acid in – by enzyme-immunoassay 346
- detmn. of immunoglobulin G in – by flow injection analysis 345
- detmn. of inorganic phosphate in – by enzymatic anal. 233
- detmn. of ketoprofen in – and urine by HPLC, dual column assay 243
- detmn. of leupeptin in – and muscle by HPLC, fluorescence derivatization with benzoin 246
- detmn. of lithium in –, comparison of emission flame spectrometry and spectrophotometry 588
- detmn. of lithium in – using new ion-selective liquid membrane electrode 520
- detmn. of lithium in – with electrodes, ion-selective, Li- or Ba-electrode 314
- detmn. of medroxyprogesterone acetate in – by GC/MS 239
- detmn. of pentamidine in – by HPLC 527
- detmn. of pharmaceutical products, SQ 27,519 in – by capillary GC 244
- detmn. of phosphatase, prostatic acid in – by FIA using holding coils for long incubation times 441
- detmn. of p-hydroxybestatin in – by HPLC/fluorimetry 527
- detmn. of phytanic acid in – by capillary GC 237
- detmn. of salicylate in – using an immobilized enzyme electrode 522
- detmn. of steroids, adrenal in – by capillary GC/MS 238
- detmn. of streptomycin in – by HPLC 445
- detmn. of teniposide in – by HPLC with electrochem. detection 594
- detmn. of theophylline in – with Seralyzer 595

Blood serum
– detmn. of thioridazine 5-sulfoxide diastereomers in – and urine by TLC, HPLC and MS 348
– detmn. of total and free cholesterol in – by amperometric assay with enzyme electrodes 238
– detmn. of verapamil in – by capillary GC 594
– detmn. of X 50 in – by GC 446
– phosphorimetric microassay for succinyl-trialanyl-p-nitroanalide-hydrolyzing enzyme in – 530
– sample-pretreatment procedure for routine LC of cortisol in – 592
Body fluids
– conditions for the kinetic detmn. of aceto-acetate in – 522
– detmn. of methotrexate in – by HPLC with electrochem. detection 445
Boric acid
– detmn. of – and germanic acid by HPLC, conductometric detection 683
– detmn. of – in pharmaceutical products by automated flow-injection pseudotitration 229
Boron
– anal. of – in water with curcumin method 427
– detmn. of – and uranium by AAS, pyrolytic carbon coating for contoured graphite tubes 642
– detmn. of – by electrodes, ion-selective, nitron-tetrafluoroborate liquid membrane electrode 178
– detmn. of – by extr.-spectrophotometry and fluorimetry 211
– detmn. of – by fluorimetry at microgram level 642
– detmn. of – in glass by nuclear track technique 650
– detmn. of – in plant materials by AAS using direct atomization of methyl borate 335
– detmn. of – in plants and water with crystal violet by spectrophotometry 513
– detmn. of – in rocks by ICP-AES, trace presepn. 330
– detmn. of – in soils by sequential scanning ICP-AES using SLIM 534
– detmn. of – in steel and nickel alloys by spectrophotometry, extr. with β-diols 321
– detmn. of – in uranium oxides with curcumin by extr. spectrophotometry 649
– detmn. of – in water by flame AES as methyl borate 427
– detmn. of – in water by spectrophotometry/FIA 659
– isotopic measurements on – in boric acid and boron carbide 411
Boron isotope ratio
– detmn. of – by MS as $Cs_2B_4O_7$ 642
Bovine serum
– Lowry proteins detmn. by flow injection anal. for – albumin and hepatitis B surface antigen 345
Bradykinin
– anal. of – by microbore HPLC 591
Brain
– detmn. of amines, biogenic and metabolites in small rat – regions by HPLC-EC method 234
– detmn. of catecholamines, serotonin and metabolites in rat – by HPLC with fluorometric and electrochem. detection 590
– detmn. of monoamine oxidase in –, comparison of ion exchangers 242
– detmn. of tryptamine in – by HPLC 436
Brain tissue
– anal. of trazodone and chlorophenylpiperazine, m- in blood plasma and – by HPLC 594
– assay of phosphorus in lipids of – by modified Bartlett assay 524
– detmn. of acetylcholine and choline in rat – by LC with immobilized enzyme post column reactor 590
Brain tissue
– detmn. of adenine nucleotides in – by HPLC 240
– detmn. of amines, biogenic in – by HPLC with electrochem. detection 234
Brass
– detmn. of iron in – with thioglycolic acid by spectrophotometry 502
Breath
– detmn. of ethanol in –, comparison of methods 589
Brines
– detmn. of ultratrace calcium and magesium in – by ICP-OES 324
Bromate
– detmn. of – by spectrophotometry, oxidation of pyrogallol red 214
Bromazepam
– detmn. of – in blood plasma by HPLC 348
Bromide
– detmn. of – in drugs with phenol red by automated FIA 515
– detmn. of – in natural water by flow injection anal. 658
Bromine
– detmn. of chlorine and – in organic compounds by argentometry 216
– detmn. of lead and – in gasoline by X-ray fluorescence 326
4-Bromo-methyl-7-methoxycoumarin
– detmn. of menthol glucuronide by HPLC after pre-column labelling with – 233
2-(5-Bromo-2-pyridylazo)-5-diethylaminophenol
– detmn. of hafnium(IV) with – by spectrophotometry 644
Bromo-pyridylazo-dimethylaminophenol
– detmn. of iron in plant materials with – by spectrophotometry 196
5-Bromouracil
– detmn. of thymine and – in DNA-hydrolysates by GC/MS/SIM 441
Bromovinyldeoxyuridine
– anal. of – in biological materials by HPLC 529
– detmn. of – and iododeoxyuridine by differential pulse polarography 232
Buprenorphine
– screening of – in urine 447
Buspirone
– detmn. of – in blood plasma by capillary GC/MS 526
Butanediol
– anal. of – from copolyether polyesters by pyrolysis GC 328
3-Butene nitrile
– detmn. of allyl isothiocyanate, – and acetic acid in mustard by GC 581
1,3-Butylene glycol
– detmn. of – in blood by GC 590

C

Cacao butter
– detmn. of solid fats content in – by pulsed NMR 226
Cadmium
– detection of – and copper with reagent-loaded polyurethane foam 316
– detmn. of – and molybdenum in soils by AAS or ICP-spectrometry 337
– detmn. of – and tellurium (simult.) in cadmium telluride films by polarography 424
– detmn. of – by AAS, matrix effects 211
– detmn. of – by radiochemical displacement, with ^{65}Zn-PAN complex 641
– detmn. of –, chromium, copper, nickel and zinc in city waste incineration ash by ICP-AES 430
– detmn. of copper, lead, – and zinc in soil lime by polarography 578
Cadmium
– detmn. of copper, lead, thallium, – and zinc traces in aluminum by anodic stripping voltammetry 648
– detmn. of copper, zinc and – by AAS, removing of interferences 211
– detmn. of – in alloys by spectrophotometry using a new reagent 494
– detmn. of – in blood by spectrometry, atomic absorption, furnace atomic non-thermal excitation 589
– detmn. of – in $CaCl_2$ extr. of soils by atom-trapping AAS 578
– detmn. of – in meat products by extr. -photometry 582
– detmn. of lead and – in small amounts of biological materials by EAAS 521
– detmn. of lead and – in soils by AAS, direct pipetting of slurries on electrothermal atomizer 337
– detmn. of lead and – in zinc by voltammetry, inverse 501
– detmn. of nickel, copper, zinc and – by X-ray fluorescence spectrometry, preconc. on ion-exchange membranes 498
– detmn. of sub-ng amounts of – in natural water by radiochem. method 427
– detmn. of trace metals, – by Zeeman spectrometry, atomic absorption 404
– detmn. of – traces in zinc and its compounds by anodic stripping voltammetry 648
– detmn. of – with 2-(5-chloro-2-pyridylazo) -5-dimethylaminophenol by spectrophotometry 641
– detmn. of zinc, – and mercury by nitrogen afterglow emission spectrometry 316
– effect of solvation on reactions between aluminum, gallium, indium, zinc, – and azo compounds 212
– effect of temperature on adsorption of – by Amberlite IR-120 628
– -selective chalcogenide glass electrode 316
– sensitivity enhancement for ICP-AES of – by suction-flow preconc. 495
– simult. catalytic titration of binary mixtures of mercury(II) with copper(II) or – 641
^{113m}Cadmium
– detmn. of – in water by XRF anal. 513
Cadmium telluride
– detmn. of cadmium and tellurium (simult.) in – films by polarography 424
Caffeine
– detmn. of – in human breast milk and blood plasma by GLC 595
– sepn. of – from coffee beans by supercritical fluid extr. and chromatography, supercritical fluid 309
Caffeoylquinic acids
– sepn. of – in plants by HPLC 336
Calcium
– detmn. of –, aluminum and antimony in poly-(vinyl chloride) by AAS 575
– detmn. of – and magnesium in water by FIA 659
– detmn. of – by stripping voltammetry at a graphite electrode 494
– detmn. of elements in geological materials by ICP-AES, matrix effect of – 330
– detmn. of – in biological materials by electrodes, ion-selective, minielectrode with microincubation chamber 314
– detmn. of – in steel by carbon-furnace AAS and AES 321
– detmn. of ultratrace – and magesium in brines by ICP-OES 324
– photo-cured polymers in – electrode for flow-injection anal. 224
Calcium oxide
– detmn. of – in calcium silicate by AAS, errors in titration 424

Calcium oxide
– detmn. of – in tungsten concentrates by AAS 504
Calcium silicate
– detmn. of calcium oxide in – by AAS, errors in titration 424
Calibration
– Bayesian – 639
Calmodulin
– detmn. of – in biological materials by competitive binding assay 438
Calorimetry
– analytical solution –, book 482
– chiral recognition of enantiomeric peptides in water by – 660
Cannabis
– anal. of – by headspace GC, origin differences 519
– detmn. of tetrahydrocannabinol in – by GC/FTIR 435
Captafol
– detmn. of captan, folpet and – in water, fruits and vegetables by TLC 585
Captan
– detmn. of –, folpet and captafol in water, fruits and vegetables by TLC 585
Carbamates
– detmn. of – by HPLC with electrochem. detection using pulsed-potential cleaning 586
– detmn. of –, insecticides in vegetables by HPLC, optimization of a reaction detector 585
– detmn. of sec. – by GLC 221
Carbamazepine
– electrochem. detection of amitriptyline, nortriptyline, imipramine, –, tricyclic drugs at polymer electrodes 434
Carbamoylphosphonates
– sepn. of nitric acid, technetium and palladium from nuclear waste with bidentate – by extr. 425
Carbamyl peptides
– sepn. of geometric isomers of –, dipeptides by HPLC 231
Carbaryl
– detmn. of –, 1-naphthol and 2-naphthol by HPLC as 4-aminoantipyrine derivatives 585
– detmn. of – in bees and pollen by HPLC 585
Carbazoles
– detmn. of – in crude oils by GC 506
Carbenicillin
– detmn. of palladium in catalysts and – with 1-(2-pyridylmethylidene)-5-(salicylidene)-thiocarbohydrazone by spectrophotometry 649
– detmn. of –, ticarcillin and sulbenicillin in blood serum and urine by HPLC 527
Carbohydrates
– anal. of – in starch hydrolysates by reversed-phase HPLC 581
– charact. of – in tobacco leaf material by pyrolysis 584
– detmn. of total – in feces by spectrophotometry 439
– detmn. of total nonstructural – in plant materials by dual enzyme method 577
– detmn. of – and diethylene glycol in wine by HPLC 225
Carbon
– detmn. of combined and free – in uranium carbide by conductivity method 650
– detmn. of – in materials for drinking water by IR spectrometry 428
– detmn. of organic – in coals by ^{13}C NMR spectrometry 506
– local detmn. of nitrogen and – in vegetables with laser conversion into gaseous state, spectral-isotopic methods 335
Carbon-14
– detection of hydrogen-3 and – in chromatography, thin-layer, TV camera system 571
Carbon, activated
– adsorption of metal ions on – at pH 1–13 490
– detmn. of hydrocarbons, halogenated, adsorbable on – after thermal desorption 8
Carbonate
– detmn. of tartaric acid, citric acid and total – in pharmaceutical products by potentiometric titration 515
Carbonates
– kinetic detmn. of – in alkali metal halides of special purity 423
Carbon dioxide
– adsorption study of – on reticulated vitreous carbon electrodes covered with platinum 207
– colorimetric porous indicator of gaseous – 332
Carbon electrodes
– adsorption study of carbon dioxide on reticulated vitreous – covered with platinum 207
– sputtered with Pd and Au for amperometric detection of hydrogen peroxide 210
Carbon fibre array electrode
– detmn. of three N-substituted phenothiazines by flow injection analysis, amperometric detection at – 231
Carbon fibre microelectrode
– detmn. of pyruvate with lactate dehydrogenase immobilized on a pyrolytic – 522
Carbonic anhydrase
– detmn. of zinc traces by FIA with immobilized – 211
Carbon monoxide
– detmn. of – in blood, losses in storage 342
Carbon sulfide
– detmn. of hydrogen sulfide and – in air by GC, simultaneous sampling in personal sampler 426
Carbonyl complexes
– sepn. of metals as – by HPLC 405
Carbonyl compounds
– detmn. of – in atmospheric liquid samples by HPLC 655
– detmn. of – in whisky as dinitrophenylhydrazones by HPLC 430
– elution characteristics of phenylhydrazones, mono- and di-nitrophenylhydrazones of aliphatic – in HPLC 500
Carboxybenzene S
– detmn. of cobalt with – in chloroform by spectrophotometry 215
Carboxyl esterase
– continuous detmn. of catalytic activity of pancreas – 530
Carboxyl groups
– quant. of – in proteins with Woodward's reagent by spectrophotometry 236
Carboxylic acids
– chromatography, ion of monobasic – and hydroxy acids 500
– detmn. of cyanovaleric acid and – in process streams by LC 651
Carboxylic acids, aromatic
– sepn. of – by HPLC on β-cyclodextrin bonded phases 501
Carboxylic acids, volatile
– detmn. of – in HPLC/MS 500
Cardiac glycosides
– detmn. of – by adsorptive stripping voltammetry 232
Carotenoid pigments
– anal. of – by CI/MS 596
Cast iron reference material
– , certification for antimony, arsenic, bismuth and lead 163
Catalysts
– detmn. of palladium in – and carbenicillin with 1-(2-pyridylmethylidene)-5-(salicylidene)-thiocarbohydrazone by spectrophotometry 649
– detmn. of palladium in – by amperometry 503
– detmn. of platinum and rhodium in – by ICP-AES 649
Catalysts
– detmn. of platinum in – by AAS 649
Catecholamines
– detmn. of free and conjugated – in biological fluids by HPLC 590
– detmn. of –, serotonin and metabolites in rat brain by HPLC with fluorometric and electrochem. detection 590
– sepn. of –, indoleamines, metabolites and precursors by rapid HPLC 437
Cation exchange
– influence of thiourea on the – behavior of elements in dilute nitric and hydrochloric acid 568
Cations
– detmn. of anions and – by simultaneous chromatography, ion 307
Celery
– detmn. of furanocoumarins in – by reversed-phase HPLC 225
Cell cultures
– detmn. of adriamycin in blood plasma, – by HPLC/fluorimetry 445
Cells
– anal. of glutathione, glutathione disulfide, glutathione S-sulfonate and cysteine S-sulfonate in – by HPLC 343
– detection of hemoglobin in – with 2,7-diaminofluorene by spectrophotometry 348
– detection of proteases in – and tissues by HPLC 243
– ident. of – surface glycoproteins by periodate-alkaline phosphatase hydrazide 592
Cellulase
– detection of – with Congo Red by diffusion assay 442
Cellulose
– sorption of gold, silver and mercury on – 618
Cellulose triacetate
– sepn. of racemates by chromatography, liquid on chiral – 204
Cement
– anal. of – by ICP spectrometry 323
Cephalosporins
– detmn. of – in pharmaceutical products by polarography 518
Ceramics
– detmn. of magnesium in alumina ceramics, – by AAS 323
Cereal lipids
– detmn. of phosphorus in –, comparison of digestion methods 580
Cereals
– detmn. of deoxynivalenol and nivalenol in – by GC 581
– detmn. of protein nitrogen in – by proton activation anal. 580
Cerebrospinal fluid
– detmn. of 3-methoxytyramine, normetanephrine and metanephrine in – by GC/MS 245
– detmn. of pyruvate, lactate and glucose in – by enzymatic spectrophotometry 522
Cerium
– indirect flame AAS of – and lanthanum by flow injection anal. 317
Cerium(III)
– detmn. of – and cerium(IV) (simult.) by FIA/fluorimetry 495
– sepn. of – with PAN by extr. 411
Cerium(IV)
– detmn. of cerium(III) and – (simult.) by FIA/fluorimetry 495
– detmn. of plutonium with – by potentiometric titration 412
– detmn. of copper(II), – and antimony(III) in pyrrolidone-2 solution by polarography 410

Cesium
– sepn. of –, strontium and barium by extr. as dicarbollylcobaltate-EDTA-PEG complex 211
Cesium iodide/thallium monocrystals
– detmn. of cobalt in – with PAR by extr. spectrophotometry 323
Chalkones
– sepn. of isomeric – and flavanones by TLC 418
Charcoal tubes
– comparison of recoveries of trichloroethylene from – and thermally-desorbable personal monitors 655
Cheese
– detmn. of amines, biogenic in – by LC with amino acid autoanalyzer 584
– detmn. of nitrogen in –, Kjeldahl method with copper catalyst 584
Chelating sorbents
– new – for noble metals 320
Chemical analysis
– new direction in –, proceedings, book 564
– realization of an universal system of – 209
Chemicals
– detmn. of pesticides, elements and – in foods, total diet study, tables 432
Chemical sensors
– , selection of adsorbates 572
Chemiluminescence
– detection of hydrogen peroxide and fluorescent compounds, new aryl oxalates for peroxyoxalate – reactions 632
– detection of reduced sulfur compounds in chromatography, gas using ozone – 313
– fluorescent compounds for peroxyoxalate – detection in chromatography, HPLC 308
– reactions between luminol, hexacyanoferrate (III) and inorganic inhibitors in – anal. 305
Chemistry
– safety in –, book 399
Chemists
– english for –, book 401
Chemoreceptor structures
– prototype potentiometric biosensors using intact – 587
Chiral phases
– sepn. of binaphthols by chromatography, HPLC, cinchona alkaloids for preparing new – 569
– sepn. of enantiomers by chromatography, HPLC, new – 486
– sepn. of enantiomers by chromatography, HPLC, R-N-(pentafluorobenzoyl)phenylglycine as – 569
Chloral hydrate
– detmn. of – by potentiometry using iodide selective electrode 217
Chloramphenicol
– detmn. of – in foods by HPLC 470
– detmn. of – in meat by HPLC 583
Chlordimeform
– detmn. of – and demethylchlordimeform in biological tissues by GC 596
Chloride
– detmn. of – in blood serum and urine by diffusion of HCl/Cl^--sensitive electrode 341
– detmn. of – in stream water with ion-selective electrodes 512
– prep. of – electrodes, ion-selective, based on Hg_2Cl_2–HgS 636
– -selective electrode in flow injection analysis 497
Chlorine
– detmn. of – and bromine in organic compounds by argentometry 216
– detmn. of – in air by spectrometric monitoring 657
– detmn. of – in biological materials by oxygen-flask combustion and GC 341
– detmn. of – in noble metals compounds by potentiometry 424
Chlorine
– detmn. of – in organochlorine pesticides and biphenyls, polychlorinated by MECA 339
– detmn. of – in water with pyridine/pyrazolone method 657
– flow-injection amperometric detmn. of – at a gold electrode 413
Chloroacetates
– sepn. of n-alkyl acetates, monochlorinated C_1–C_8, –, dichloroacetates and trichloroacetates by capillary GC 499
Chloroacetophenone
– detmn. of – in working zone air by spectrometry 511
Chloroacetyl chloride
– detmn. of – in air by HPLC 655
Chloroform
– detmn. of tetrachloromethane, –, 1,2-dichloroethane and benzene in germanium tetrachloride by GC 504
^{14}C Chloroform
– anal. of radiochem. purity of – and dibromo 1,2-$^{14}C_2$ ethane by HPLC 499
Chloroorganic compounds
– detmn. of – by chromatography, liquid or flow-injection analysis with detector based on electrodes, ion-selective 11
Chlorophenols
– detmn. of tetrachlorodibenzo-p-dioxin in – and related products 603
– investigation of toxicity, microbial of – by bioluminescence of bacteria 136
Chlorophenylpiperazine, m-
– anal. of trazodone and – in blood plasma and brain tissue by HPLC 594
Chlorophylls
– detmn. of – and pheophytins in plant extracts by spectrophotometry 336
Chloropropanoic acids
– sepn. of – by reversed-phase HPLC 499
2-(5-Chloro-2-pyridylazo)-5-dimethylaminophenol
– detmn. of cadmium with – by spectrophotometry 641
Chloroquine
– detmn. of –, amodiaquine and metabolites in blood, red blood cells and urine by HPLC 446
– membrane electrode with low detection limit 232
Chlorosuccinimide, N-
– detmn. of food colors with – by titration 228
Chlorosulfanes
– anal. of – (n = 1–30) by HPLC 214
Chloroxuron
– detmn. of – in strawberries by LC with ECD 587
Chlorpheniramine
– detmn. of – and diphenhydramine in pharmaceutical products by HPLC 433
Chlorpromazine
– detmn. of –, amitriptyline, propantheline and meperidine by electrodes, ion-selective, prep. of liquid membranes 517
– detmn. of – in pharmaceutical products by third-order UV spectrometry 517
– detmn. of vanadium in petroleum products by catalytic method, – oxidation 220
5β-Cholanoic acid
– ident. of bile acids and – by two-dimensional spectrometry, NMR 440
Cholesterol
– detmn. of – by flow injection anal. with immobilized cholesterol oxidase 346
– detmn. of glucose, creatinine, free – and lactic acid using an integrated FIA microconduit 588
– detmn. of – in blood serum by precipitation with polyethyleneglycol 524
– detmn. of oxidized derivatives of – by capillary GC 238
– detmn. of total and free – in blood serum by amperometric assay with enzyme electrodes 238
Choline
– amperometric acetylcholine and – sensors with immobilized enzymes 436
– detmn. of acetylcholine and – by HPLC on immobilized enzyme column 436
– detmn. of acetylcholine and – in rat brain tissue by LC with immobilized enzyme post column reactor 590
– detmn. of – in blood by chemiluminescence 234
– sepn. of –, glycinebetaine aldehyde in plant extracts by HPLC 336
Choline metabolites
– sepn. of – by HPLC 436
Chondroitin
– anal. of disaccharides from hyaluronic acid and – by HPLC 237
Chromatoelectrophoresis
– chromatofocusing, –, theory and practice 309
Chromatofocusing
– , chromatoelectrophoresis, theory and practice 309
Chromatographic peaks, overlapping
– resolution of – by evolving factor analysis 638
Chromatography
– , limit of detection, definition and equation 309
– , loss of water during heat treatment of capillary columns 204
– prediction of partition coefficients in phase system composition by factor analyis for – 209
Chromatography, centrifugal partition
– , carrier addition for preparative sepn. 311
Chromatography, correlation
– simult. – to calibration in chromatography, HPLC 634
Chromatography, countercurrent
– , large-scale preparative sepn. 310
– , monolithic intregrated flow circuit 310
– , prediction of resolution 310
– /spectrometry, FT-IR, study of interfacing 310
– , with toroidal coil planet centrifuge 310
Chromatography, Donnan exclusion
– with non-ionic adsorption 311
Chromatography, electrokinetic
– sepn. of phenylthiohydantoin amino acids by – with micellar solutions 342
– with β-cyclodextrin derivative phase 311
Chromatography, extraction
– conc. of trace metals by –, with Eriochrom Black T 307
Chromatography, flash
– anal. of microbiocidal isothiazolones by – 293
Chromatography, foam countercurrent
– , dual system 310
Chromatography, gas
– 2-cyanoethyldimethyl(diethyl)aminosilane as silylating reagent for – using N-P detector 312
– , adsorption theory on monolayers 311
– advances in capillary –, book 482
– , alternative variants of calculation of retention 488
– anal. of amino acids using micropacked columns by quant. – 500
– , anal. of capillary column bleed products 205
– anal. of gases by –, accurate sampling of sub-atmospheric pressure samples 511
– anal. of mixtures of hydrocarbons and sulfur-organo compounds by EI and pulsed positive negative ion CI –/mass spectrometry 206
– anal. of steroids by capillary –, optimization 407
– , at-column injection for capillary columns 406
– , automated derivatizer 313
– chromatography, HPLC/–, direct coupling, retention gap technique 204
– chromatography, liquid/–, capillary columns with polymerized stationary phases 635
– , chromatography, multi, differentiation of polarity 570
– , chromatography, multi, exp. example 571

Chromatography, gas
– , chromatography, multi, positive-identification 635
– , chromatography, multi, qual. ident. 407
– , colloid stationary phases containing butasil 487
– , comparison of injection techniques for capillary GC 406
– computer-processed ident. of multicomponent mixtures of organic compounds from – data 206
– , computer program for calculation of optimum performance 313
– condensation of hydroxyl-terminated stationary phases in capillary – 205
– correlation – of thermal degradation products of thermostable polymers 653
– criterion for stationary phase selection for – of reactive elementorgano compounds 488
– cyclodextrins as stationary phase in – 312
– , deactivation of fused silica capillaries with cyanopropylhydrosiloxanes 204
– derivatization of drugs and bioorganics for improved detection by – 432
– detection of reduced sulfur compounds in – using ozone chemiluminescence 313
– detector, photoionization in –, review 569
– detmn. of organic compounds, volatile by –, collection by simple diffusion 313
– detmn. of volatile compounds by capillary –, automated purge-and-trap system 206
– , dispersion and selectivity indices for Kováts system 488
– , effectivity of columns 487
– , electrically heated cold-trap inlet system 313
– evaluation of octanol-water partition coefficients using capillary – 652
– extr. of nonstationary information from correlation noise in – 209
– formula detmn. of –/microwave-induced plasma AES 488
– , glass capillary columns with hydrogenated Apiezon L and OV-101 487
– , high-end linearity of detector, flame ionization 570
– , influence of surface boron atoms on the packing properties 205
– influence of total pressure changes in a liquid-gas system on the accuracy of –, headspace 406
– in fluidized beds 205
– , linearity assessment of detectors 570
– membrane detector, polarographic for – 570
– , micropacked columns 487
– /MS, short open tubular columns 571
– new polar substituted phenyl siloxane polymers for capillary – 570
– on carbon molecular sieves with fixed sulfur surface complexes 311
– on tetra-n-butylammonium salts as stationary phases 312
– optimization in capillary – 204
– , optimization of detector, helium ionization 313
– peak reversals of organic compounds on Bentone-34 modified columns, – 569
– , persilylated moderately polar capillary columns 570
– , prediction of retention indices of selected olefins 206
– , prep. of cyanosilicone-coated capillaries 406
– , prep. of new stationary phases on capillary columns 205
– , properties of stationry phases containing silver nitrate 312
– pulsed-valve chemical ionization for –/mass spectrometry, FT 201
– , quality of capillaries and packed columns, "peak number 10" 487

Chromatography, gas
– , relationship between physical properties and chromatographic characteristics of some polymer stationary phases 312
– , relationship between retention indices of oxygen-containing substances 313
– , selectivity of complexing stationary phases 312
– , selectivity tuning in capillary GC 205
– sepn. of alkanes by – with EI- and CI-MS 313
– serially coupled columns in – 487
– , static coating of capillary columns 406
– study of purge-and-trap analysis for – 407
– synthesis of siloxane stationary phases for capillary – and chromatography, supercritical fluid 309
– temperature gradients in –, review 570
– tetraalkylammonium tetrafluoroborates as stationary phases for – 205
– , thermodynamics under linear temperature programming conditions 570
– trimethylsilylacetylacetone as an effective silylating agent for – 406
– use of cyclodextrins in – 312
– use of nickel, capillary columns in – 406
– validitation of derivatized multicomponent analysis by – of sugars 570
– , wetting of the surface of glass capillaries modified with a carbon layer 204
– with detector, redox chemiluminescence 313

Chromatography, gas, pyrolysis
– anion effects in – of phosphonium compounds, quaternary 507

Chromatography, gel
– poly-γ-methyl-L-glutamate as packing for – 204
– , review 204
– sepn. of water-soluble polymers by –, new gel permeation column 223
– , theory of concentration effects 204

Chromatography, HPLC
– aryl oxalates for detector, chemiluminescence in – 308
– at low temperature for labile molecules 569
– , automated collection of effluent for auto-radiography 311
– /chromatography, gas, direct coupling, retention gap technique 204
– clinical analysis by –, review 519
– , comparison of static and dynamic mixers for gradient system 202
– detmn. of phosphorus and silicon by – with ICP detector 203
– detmn. of silanol groups on packings for – by isotopic exchange 486
– detmn. of tetraphenyllead and hexaphenyldi-lead by –, interface for ICP 203
– fluorescent compounds for peroxyoxalate chemiluminescence detection in – 308
– , gradient elution, water and acetonitrile as solvents 633
– , gradient elution, water and acetonitrile mixtures 633
– in biochemistry, book 399
– , interface to FAB-MS 308
– , metallophilic and silanophilic interactions 203
– micellar mobile phases for reversed-phase – 203
– , modified detector, refractive index 634
– , new programmable multiwavelength detector 203
– new sampling technique for reversed-phase –/ spectrometry, FT-IR 306
– , on-column prep. of bonded stationary phase 202
– optimization, automated of – sepn., book 629
– , optimization methods, review 405
– optimization of reversed-phase sepn. with quaternary mobile phases in – 633
– polyphenol bonded to silica gel for – 486
– , prep. of amine modified porous polymer 202
– sepn. of benzene and benzene, deuterated by –, two-column recycle method 218

Chromatography, HPLC
– sepn. of binaphthols by –, cinchona alkaloids for preparing new chiral phases 569
– sepn. of enantiomers by –, new chiral phases 486
– sepn. of enantiomers by – on silica gel with covalently bound monosaccharides 405
– sepn. of enantiomers by –, R-N-(pentafluoro-benzoyl)phenylglycine as chiral phases 569
– sepn. of free radicals by – with ESR detection 308
– sepn. of isomers by chromatography, thin-layer and – with cyclodextrins as selective reagents 311
– sepn. of proteins by –, hydrophobic-interaction 591
– sepn. of proteins by –, new anion-exchange columns 591
– sepn. of proteins by –, new loading technique 307
– simplex data reduction for non-homogeneous variance and non-linear equations in – 410
– simult. chromatography, correlation to calibration in – 634
– spectrometer, UV VIS for detection in – 308
– , study of high-temperature silylation for deactivation of silica capillaries 202
– , system with personal computer 486
– , temperature gradients 634

Chromatography, HPTLC
– , apparatus for programmed multiple development 311
– purity of solvents in – 407

Chromatography, ion
– characteristics of ethylene diamine in – of metal ions 405
– detmn. of anions and cations by simultaneous – 307
– , handbook 399
– influence of eluent composition in – of inorganic ions 405
– investigation of "system peaks" in –, UV-detection 252
– non-suppressed –, low-capacity anion-exchange columns 307
– of monobasic carboxylic acids and hydroxy acids 500
– on crown ether modified silica 306
– on-line – in a thermal power plant 647
– sepn. of anions, inorganic by non-suppressed –, origin and elimination of system peaks 307
– sepn. of inorganic and organic anions by – on methacrylic copolymer matrix 307
– sepn. of metals by –, effect of complexing agents 307
– single-column – of weak inorganic acids in glass and galvanic baths 650
– trace anal. of anions by backflush method in – 307

Chromatography, ion exchange
– sepn. of elements by – on Retardion 11A8 307
– sepn. of lead and copper by – on chelating resins 213
– sepn. of metals by – on PAN-sorbed tin(IV) silicate columns 195
– sepn. of organic compounds by – with counter-ions 308

Chromatography, ion-pair
– adsorption of surfactants, anionic, sodium octyl sulfate on octadecyl bonded phase in – 327
– detmn. of anions, inorganic by – 405
– , effect of reagent type 308

Chromatography, ISRP
– chromatography, liquid/– with internal surface reversed-phase silica support 486

Chromatography, ligand exchange
– sepn. of amino acid enantiomers by – 343

Chromatography, liquid
– anal. of biological compounds by –, dynamically modified capillary columns 339
– anal. of toxicological substances by –, recovery of mutagenic activity on various adsorbents 595
– /chromatography, gas, capillary columns with polymerized stationary phases 635
– /chromatography, ISRP with internal surface reversed-phase silica support 486
– , derivative spectroscopy for detmn. of peak purity 309
– , derivatization and post-column reactions, review 487
– detector, amperometric for –, miniaturized flow cell 309
– detector, potentiometric for following pH shifts in – 569
– detmn. of chloroorganic compounds by – or flow-injection analysis with detector based on electrodes, ion-selective 11
– encoded structural data to predict the – behaviour of tetradentate metal complexes 569
– fluorescence studies of the stationary-phase chemical environment in reversed-phase – 633
– , influence of micelles 310
– , low dead volume coulometric detector 203
– micellar effects on molecular diffusion in – 633
– , microcolumn, with nitrogen-sensitive thermionic detection 486
– , multivariate resolution of overlapped peaks 486
– , multiwavelength UV detector for heavily fused peaks 203
– , narrow-bore normal phase columns and on-line ECD 308
– , new equation for distribution coefficients 203
– , new poly(styrene-divinylbenzene) weak cation exchanger 306
– on chemically bonded electron electron donor and acceptor 569
– organic salts, liquid at room temperature, as mobile phases in – 633
– , packing of large scale columns by sucking method 202
– , peroxyoxalate detection system 634
– , relationship between partition ratio and binary mobile phase composition 633
– , reversed-phase on vinylalcohol copolymer gels 203
– scanning on-column detector, voltammetric for open-tubular – 570
– sepn. of nucleotides and nucleosides by –, on polyvinyl alcohol 239
– sepn. of racemates by – on chiral cellulose triacetate 204
– solvent selection for thermospray –/mass spectrometry 635
– with detector, refractometric, flow-through Abbé refractometer 308
– with mixed eluents, UV detection of solvent peaks 486

Chromatography, multi
– chromatography, gas, –, differentiation of polarity 570
– chromatography, gas, –, exp. example 571
– chromatography, gas, –, positive-identification 635
– chromatography, gas, –, qual. ident. 407

Chromatography, overpressured-layer
– , methodological developements 571

Chromatography, paper
– sepn. of metals as dimethylsulfoxide complexes by – 311

Chromatography, plasma
– , review 314

Chromatography, size-exclusion
– , thermodynamics on polystyrene gels with toluene or tetrahydrofuran mobile phases 310

Chromatography, subcritical fluid
– sepn. of phosphine oxide enantiomers by – on chiral phase 216

Chromatography, supercritical fluid
– combined with FT-IR microspectrometry 635
– , effect of pressure 634
– , gradient programming 309
– /mass spectrometry for thermally labile compounds 634
– modifier effects in – 309
– , new detection systems, review 634
– , on-line sampling 406
– open tubular column – combined with benchtop MS 635
– , review 406
– , review 487
– sepn. of caffeine from coffee beans by supercritical fluid extr. and – 309
– sepn. of hydrocarbons, polycyclic aromatic by –, on-line two-dimensional method 335
– sepn. of oligomers by – with IR detection 223
– sepn. of petroleum residues by – 221
– /spectrometry, FT-IR, automatic diffuse reflectance interface 570
– synthesis of siloxane stationary phases for capillary chromatography, gas and – 309
– , use of xenon 487
– , with CO_2, various stationary phases 634
– with detector, ion mobility 635
– with dual-flame photometric detection 635
– with FT-IR detection, interface 309

Chromatography, thin-layer
– continuous – in sandwich tanks with an eluent distributor 571
– detection of hydrogen-3 and carbon-14 in –, TV camera system 571
– ident. of drugs using –, book 565
– sepn. of bismuth from other metals by – on hydrous zirconium oxide 407
– sepn. of diastereoisomers by – on silica, solvent selectivity effects 407
– sepn. of inorganic ions by –, on polyethyleneimine cellulose in sulfate media 571
– sepn. of isomers by – 571
– sepn. of isomers by – and chromatography, HPLC with cyclodextrins as selective reagents 311
– sepn. of lipids by –, with gradient saturation 439
– sepn. of rhenium(VII), molybdenum(VI) and vanadium(V) by –, on Al_2O_3 407

Chromazurol S
– spectrophotometric study of complexation between chromium(III) and – 319

Chromite stone
– anal. of – in glass 324

Chromium
– detmn. of cadmium, –, copper, nickel and zinc in city waste incineration ash by ICP-AES 430
– detmn. of – in Bi/Si single crystals and in raw materials 504
– detmn. of – in urine and blood plasma of steel welders, evidence of toxicity 341
– detmn. of – in urine by probe electrothermal AES 403
– detmn. of – in urine by spectrometry, atomic absorption, electrothermal, background correction 589
– detmn. of total – by flow injection anal. 319
– detmn. of submicrogram amounts of – by radiochemical methods 319
– hydrodynamic injection in flow injection analysis of – in steel 649

Chromium(III)
– detmn. of – in chromiumplating solutions by titration 325
– preconc. and detmn. of – traces by FIA/ICP-AES 646
– spectrophotometric study of complexation between – and Chromazurol S 319

Chromium(VI)
– detmn. of – by flow injection amperometry, in presence of Cr(III) and Fe(III) 646
– detmn. of – in steel by extr. with 1-naphthylmethyltriphenylphosphonium cation and spectrophotometry 322
– sepn. of – by extr. of complexes, comparison of reagents and solvents 319

Chromiumplating solutions
– detmn. of chromium(III) in – by titration 325

Chromotropic acid
– tautomery and acid-base conversion in monoazo derivatives of –, spectrometry, NMR, ^{13}C 494

Chymotrypsin
– detmn. of α– with new substrate by fluorogenic detection 241
– detmn. of – and trypsin, enzyme electrode 572

Ciclacillin
– detmn. of ampicillin, amoxicillin and – in blood serum and urine by HPLC, pre-column derivatization 246

Cigarettes
– detmn. of elements in – by NAA 584
– detmn. of elements in – by NAA, transference to smoke 584

Cigarette smoke
– anal. of tobacco smoke and – by NAA 584

Cinnamoylphenylhydroxylamine
– detmn. of tin in alloys with – by gravimetry 422

Ciramadol
– detmn. of –, dezocine, analgesics by HPLC with electrochem. detection 593

Circular dichroism
– detmn. of opiates by – 519
– detmn. of stereoisomers by – 632

Citric acid
– detmn. of tartaric acid, – and total carbonate in pharmaceutical products by potentiometric titration 515

Citrus fruits
– detmn. of ascorbic acid in – by spectrophotometry as Fe(II)-dimethylglyoxime complex 430

Clark oxygen electrode
– , influence of acetylene, ethylene and methane 314

Clavulanic acid
– detmn. of – and sulbactam in blood plasma and urine by HPLC 246

Clinical analysis
– by chromatography, HPLC, review 519

Clinical chemistry
– advances in – 519
– controlled-dispersion flow injection analysis applied to – 491

Clofibric acid
– detmn. of – in blood plasma by HPLC 446

Clustering, hierarchical
– in spectrometry, NMR, ^{13}C 209

Coal fly ashes
– detmn. of vanadium in coals and – with N-m-tolyl-N-phenylhydroxylamine by extr.-spectrophotometry 573

Coal hydroproducts
– detmn. of phenolic hydroxyl groups in – by ^{29}Si NMR spectrometry 506

Coal liquids
– anal. of – by HPLC, donator-acceptor complex HPLC 220
– charact. of phenols from – by ^{119}Sn NMR spectrometry, as tri-n-butyltin derivatives 220
– sepn. of – by LC, ion exchange and adsorption 573

Coal oils
– detmn. of hydrocarbons in mineral oils and – by chromatography, chromarod 650

Coals
– detmn. of organic carbon in – by ^{13}C NMR spectrometry 506

Coals
– detmn. of selenium in – by graphite furnace AAS 325
– detmn. of trace elements in biological materials and – by inverse voltammetry and AAS, sample combustion in oxygen stream 32
– detmn. of vanadium in – and coal fly ashes with N-m-tolyl-N-phenylhydroxylamine by extr.-spectrophotometry 573
– detmn. of volatile components from – by pyrolysis GC 505
– ident. of organic and pyrolytic sulfur in – and oil shale by thermogravimetry and gas anal. 325
– insight into structure of – from degradation with ruthenium tetroxide and tandem MS 220
Cobalt
– anal. of – in high purity nickel for reactor neutron dosimetry 502
– detmn. of – and nickel with 1,5-bis(di-2-pyridylmethylene)thiocarbonohydrazide by spectrophotometry 319
– detmn. of copper and – with EDTA by derivative spectrophotometry 316
– detmn. of – in cesium iodide/thallium monocrystals with PAR by extr. spectrophotometry 323
– detmn. of – in paint dryers and varnishes by differential pulse polarography 329
– detmn. of – in steel, alloys and minerals by spectrophotometric titration 502
– detmn. of iron, –, copper, zinc and lead in nickel and nickel sulfate by ICP-AES and NAA 502
– detmn. of nickel and – in biological materials, fish by voltammetry 514
– detmn. of –, nickel and iridium with tetrahydrofurfurylxanthate by spectrophotometry after coprecipitation with naphthalene 215
– detmn. of palladium and – as dithiocarbamate complexes by HPLC without solvent extr. 414
– detmn. of silver and – by kinetic spectrophotometry, o-dianisidine-persulfate reaction 316
– detmn. of – with carboxybenzene S in chloroform by spectrophotometry 215
– kinetic detmn. of – in soils with pyridine-2-aldehyde 2-pyridylhydrazone 646
– photothermal deflection spectroscopy for ultra trace anal. of – and copper ion 497
– preconc. of – with N-(dithiocarboxy)sarcosine and Amberlite XAD-4 resin 414
Cobalt(II)
– detmn. of – and cobalt(III) by spectrophotometry, precipitation with acetylacetone 215
– detmn. of – by polarography as 2,2′-bipyridin thiocyanate complex 191
– detmn. of iron(II), – and manganese(II) by extr. and voltammetry of mixed-ligand complexes 215
Cobalt(III)
– detmn. of cobalt(II) and – by spectrophotometry, precipitation with acetylacetone 215
– strongly oxidizing agents in flow injection analysis, – 637
Cobalt(II) chloride
– hydration of – in acetone in presence of small amounts of water 651
Codeine
– detmn. of – and morphine in urine by capillary GC/MS 348
Coenzyme Q
– study of – by HPLC 442
Cokes
– detmn. of sulfur in – by X-ray fluorescence anal. 325
Collagen
– detmn. of type VI – in biological materials by radioimmunoassay 345
Colloidal suspensions
– sizing synthetic mixtures of latex and various – by photon correlation spectrometry 575
Combustion products, gaseous
– generation and anal. characterization of – 449
Complexing agents
– remobilization of heavy metals from river sediments through organic – 658
Complex stability
– of N,N-dialkyl-N′-benzoylurea-chelates with coordination sites O, S, Se 621
Computer program
– MINIPOL, a desk – for refinement of protonation constants from DPP 494
Congo Red
– detection of cellulase with – by diffusion assay 442
Continuous-flow analysis
– experimental comparison of flow injection analysis and air-segmented – 637
Copolyether polyesters
– anal. of butandiol from – by pyrolysis GC 328
Copolymers
– sepn. of – by LC, adsorption and size exclusion 574
Copper
– detection of cadmium and – with reagent-loaded polyurethane foam 316
– detmn. of aluminum, –, iron and manganese as 8-quinolinol complexes by HPLC 317
– detmn. of – and cobalt with EDTA by derivative spectrophotometry 316
– detmn. of – and manganese by spectrometry, atomic absorption, absolute mass detmn. with discrete nebulisation 305
– detmn. of – and nickel (simult.) by liquid-liquid extr. and GLC 497
– detmn. of – and zinc in aluminum alloys by chelatometric titration 395
– detmn. of bismuth in – by hydride generation AAS 648
– detmn. of – by kinetic fluorimetry, morin-H_2O_2 reaction 315
– detmn. of cadmium, chromium, –, nickel and zinc in city waste incineration ash by ICP-AES 430
– detmn. of – in alloys and ores by complexometry 420
– detmn. of – in alloys with 2-nitroso-5-dimethylaminophenol and zephiramine by solvent extr. -spectrophotometry 420
– detmn. of – in alloys with EDTA by spectrophotometry 420
– detmn. of – in aluminum alloys with 5-Br-PADAP by extr.-spectrophotometry 648
– detmn. of – in biological tissues with (Z)-2-thiophenaldehyde-2-pyridylhydrazone by spectrophotometry 588
– detmn. of – in industrial electroplating baths, fiber-optic cell 324
– detmn. of – in pure iron by X-ray fluorescence spectrometry 419
– detmn. of – in river water by solvent extr.-AAS after preconc. 513
– detmn. of – in sea water by GC with AAS detection 427
– detmn. of – in solids and ores by laser ablation plasma emission spectrometry 420
– detmn. of iron, cobalt, –, zinc and lead in nickel and nickel sulfate by ICP-AES and NAA 502
– detmn. of –, lead, cadmium and zinc in soil lime by polarography 578
– detmn. of –, lead, thallium, cadmium and zinc traces in aluminum by anodic stripping voltammetry 648
– detmn. of nickel, – and zinc as tetraphenylporphine chelates by HPLC 216
Copper
– detmn. of nickel, –, zinc and cadmium by X-ray fluorescence spectrometry, preconc. on ion-exchange membranes 498
– detmn. of –, silver and palladium by AES after preconc. on Spheronthiol 410
– detmn. of thallium, electrochemical masking of large amounts of – in DPASV 212
– detmn. of trace platinum by AAS, interference by – and other heavy metals 175
– detmn. of – with N-phenyl-2-mercaptoacetamide disulfide by kinetic method 315
– detmn. of –, zinc and cadmium by AAS, removing of interferences 211
– detmn. of zinc and – in urine by Zeeman effect flame AAS 520
– detmn. of –, zinc and iron in parotid saliva by FIA-AAS 589
– detmn. of –, zinc and iron in whole blood by AAS 521
– detmn. of zinc, magnesium, – and nickel in water by kinetic spectrophotometry, substitution of calmagite ligand by EDTA 512
– photothermal deflection spectroscopy for ultra trace anal. of cobalt and – ion 497
– platinum gauze activated by hydrogen for adsorption sepn. of silver traces in – metal 411
– reactions between – and 14-membered tetraazamacrocycles in anal. of alloys 420
– selective kinetic fluorimetry detmn. of – at the ng/ml level 640
– sepn. of lead and – by chromatography, ion-exchange on chelating resins 213
– sequential extr. detmn. of – and nickel with 2,4-dihydroxyacetophenone thiosemicarbazone 640
Copper(I)
– detmn. of – by AAS after adsorption as ion-associated complex on naphthalene 315
– detmn. of – by AAS after extr. into molten naphthalene 315
Copper(II)
– application of an indicator reaction to catalytic detmn. of – 315
– detmn. of –, cerium(VI) and antimony(III) in pyrrolidone-2 solution by polarography 410
– detmn. of – in tap water by chemiluminescence 658
– detmn. of thiosemicarbazones with – by titration using Cu-selective electrode 494
– preconc. of – on immobilized 8-quinolinol in a flow-injection system 494
– sepn. of DCTA chelates of bismuth(III), iron-(III) and – by reversed-phase paired-ion chromatography 318
– simult. catalytic titration of binary mixtures of mercury(II) with – or cadmium 641
– solvent extr. of N-cyclo-N-nitrosohydroxylamine (enha) and of —enha complex into MIBK 410
Copper alloys
– detmn. of bismuth by stripping anal. of –, elimination of interferences 413
Copper(II) complexes
– descript. of – of humic material, aquatic by fluorescence quenching titration 68
Copper concentrates
– detmn. of selenium and tellurium in – by flame AAS 478
Coproporphyrinogen oxidase
– detmn. of – and protoporphyrinogen oxidase by fluorimetry 241
Correlation analysis
– the control of additivity for multicomponent mixtures by – 639
Corticosteroids
– anal. of –, dexamethasone in urine by capillary GC/ECD/NCI-MS 239
– sepn. of – and nitrophenacyl esters, p- by HPLC, chemiluminescence with lucigenin 435

Cortisol
– detmn. of unbound and bound – by radioimmunoassay 238
– sample-pretreatment procedure for routine LC of – in blood serum 592
Coulometry
– electrogeneration of iodine(I) from methyl iodide in – 207
Coulostatic analysis
– single-pulse – 207
Coumarins
– sepn. of – and furocoumarins by TLC and HPLC, reversed phases 418
Counter-ions
– sepn. of organic compounds by chromatography, ion exchange with – 308
Creatine kinase
– detmn. of myocard MM – by immunoblot electrophoresis 241
Creatinine
– detmn. of glucose, –, free cholesterol and lactic acid using an integrated FIA microconduit 588
– detmn. of – in biological fluids by enzymatic FIA 523
– detmn. of – in blood serum and urine by bioluminescence method in continuous flow mode 437
Cresols
– anal. of tert.-butylated – by capillary GC/MS 218
– detmn. of phenol, – and xylenols in workplace air by HPLC with electrochem. detection 655
Critical micelle concentration
– detmn. of – of surfactants with N-phenyl -1-naphthylamine by fluorimetry 575
Crown ethers
– adsorption of lanthanides with – adsorbents 212
18-Crown-6-potassium ferricyanide
– complex as a potentiometric titrant 208
Crude oils
– anal. of – by capillary GC with computerized calculation 325
– anal. of – residues by automated HPLC 573
– charact. of – by ^{13}C NMR spectrometry 220
– detmn. of carbazoles in – by GC 506
– detmn. of elemental sulfur in – and petroleum fractions by potentiometric titration 325
– detmn. of phenanthrene and methylphenanthrene in - by multidimensional capillary GC 221
Crystal violet
– detmn. of boron in plants and water with – by spectrophotometry 513
Cupferron
– detmn. of samarium traces via – complex by polarography 110
Cuprous sulfide collecting system
– anal. of sweeps using a – 321
Curcumin
– detmn. of boron in uranium oxides with – by extr. spectrophotometry 649
Curve fitting
– comparison of – algorithms for flame spectrometry, atomic absorption 403
Curve fitting, multiparametric
– , strategies, structure classifications, computer program 638
Cyanamide
– detmn. of – in blood plasma by HPLC 595
Cyanate
– detmn. of – in biological fluids with 2-aminobenzoic acid by spectrophotometry 341
Cyanide
– detmn. of – in blood by Conway microdiffusion 522
– detmn. of – in water by spectrophotometry 428
2-Cyanoethyldimethyl(diethyl)aminosilane
– as silylating reagent for chromatography, gas using N-P detector 312
Cyanogen
– detmn. of – and cyanogen chloride by GC with FID 656
Cyanogen chloride
– detmn. of cyanogen and - by GC with FID 656
Cyanovaleric acid
– detmn. of – and carboxylic acids in process streams by LC 651
Cyclic ethers
– use of acetals and – as indicators in thermometric titration 493
Cyclodextrin
– anal. data for – induced solid-surface luminescence, room-temperature of selected compounds 568
– sepn. of barbiturates in presence of soluble β– by reversed-phase TLC 230
– sepn. of cis- and trans decalin as – complexes by GLC 418
– sepn. of isomeric alkylbenzenes as – complexes by reversed-phase HPLC 418
β-Cyclodextrin
– sepn. of carboxylic acids, aromatic by HPLC on – bonded phases 501
– sepn. of phenolic compounds by reversed-phase HPLC on – column 418
Cyclodextrins
– as stationary phase in chromatography, gas 312
– sepn. of isomers by chromatography, thin-layer and chromatography, HPLC with – as selective reagents 311
– use of – in chromatography, gas 312
1,3-Cyclohexanedione bis(4-methylthiosemicarbazone)
– detmn. of nitrite with – by spectrophotometry 213
N-cyclo-N-nitrosohydroxylamine
– solvent extr. of – (enha) and of copper(II)-enha complex into MIBK 410
Cyclophosphamide
– anal. of – in blood plasma by capillary GC/NPD, silica sample purification 595
Cyclosporin
– detmn. of – in blood by HPLC 445
– detmn. of – in blood and kidney tissue by HPLC 594
– measurement of – in blood by charcoal adsorption and HPLC 445
Cyclosporin A
– detmn. of – in blood by HPLC 446
Cysteic acid
– detmn. of – by GC 417
Cysteine
– detmn. of – and glutathione in blood by LC with electrochem. detection 235
– polarographic detmn. of –containing dipeptides 344
Cysteine S-sulfonate
– anal. of glutathione, glutathione disulfide, glutathione S-sulfonate and – in cells by HPLC 343
Cysteinyl residues
– detmn. of – in reduced proteins, 2-bromoethylamine instead of ethyleneimine 236
Cytochrome C
– detection of glycosaminoglycans by ^{125}I– 345
Cytokinins
– detmn. of – in plant extracts as t-butylmethylsilyl derivatives by GC/MS 440

D

2,4-D
– detmn. of nitrosodiethanolamine in – by LC and GC 338
Data acquisition systems
– computerized battery-powered field programmable – 639
Dc arc excitation
– suppress. of light emission instability in case of high-current – in biological materials 561
DCTA
– detmn. of EDTA, – and DTPA by catalytic titration with manganese 492
10-Deazaaminopterin
– anal. of –, 10-ethyl-10-deazaaminopterin in blood plasma and urine by HPLC/fluorimetry 445
Debrisoquine
– detmn. of – in urine by HPLC 594
– detmn. of – in urine by LC 594
Decalin
– sepn. of cis- and trans – as cyclodextrin complexes by GLC 418
Decarboxylase, aromatic L-amino acid
– assay for – based on fluorescence derivatization 240
Decomposition
– anal. of organic materials, acid – in multisample bomb 415
Dehydroascorbic acid
– detmn. of ascorbic acid, – and isoascorbic acid in blood by HPLC 473
7-Dehydrocholesterol
– detmn. of – in blood by HPLC 440
4-Demethoxydaunorubicin
– detmn. of – and metabolites in biological fluids by reversed-phase HPLC 245
Demethylchlordimeform
– detmn. of chlordimeform and – in biological tissues by GC 596
Demeton
– sepn. of – isomers by countercurrent chromatography 339
Densitometer, laser
– spectrophotometric microassay for sulfated glycosaminoglycans using – 592
Dentifrices
– detmn. of potassium nitrate and sodium monofluorophosphate in – by LC 229
Deoxidants
– detmn. of – influencing the morphology of nonmetallic inclusions in steel 420
Deoxynivalenol
– detection of – in grains by TLC 228
– detmn. of – and nivalenol in cereals by GC 581
– detmn. of – in milk by GC 583
Deoxyribonucleases
– radioimmunoassay for human – I in biological fluids 530
Derivatization
– anal. of metal ions via chromatographic – with dithiocarbamates by HPLC 116
Desethylamiodarone
– anal. of amiodarone and – in biological fluids by HPLC 244
Detection limits
– detmn. of – in graphite furnace spectrometry, atomic absorption, ensemble summation 255
Detector, amperometric
– for chromatography, liquid, miniaturized flow cell 309
Detector, chemiluminescence
– aryl oxalates for – in chromatography, HPLC 308
Detector, electrochemical, swept-potential
– in HPLC of nitrosamines 218
Detector, flame ionization
– chromatography, gas, high-end linearity of – 570
Detector, helium ionization
– anal. of permanent gases by GC with – 333
– chromatography, gas, optimization of – 313
Detector, ion mobility
– chromatography, supercritical fluid with – 635
Detector, photoionization
– in chromatography, gas, review 569

Detector, photolytic chemiluminescence
– for GC anal. of N-nitroso compounds 430
Detector, polarographic
– membrane – for chromatography, gas 570
Detector, potentiometric
– for following pH shifts in chromatography, liquid 569
Detector, redox chemiluminescence
– chromatography, gas with – 313
Detector, refractive index
– chromatography, HPLC, modified – 634
Detector, refractometric
– chromatography, liquid with –, flow-through Abbé refractometer 308
Detector, voltammetric
– scanning on-column – for open-tubular chromatography, liquid 570
Dexamethasone
– anal. of – and betamethasone in tablets by TLC 435
– anal. of corticosteroids, – in urine by capillary GC/ECD/NCI-MS 239
– detmn. of – in blood plasma and urine by electron-impact MS 528
Dextropropoxyphene
– detmn. of – and nordextropropoxyphene in blood serum by HPLC 349
Dezocine
– detmn. of ciramadol, –, analgesics by HPLC with electrochem. detection 593
Dialkylamines
– anal. of N-oligooxyethylene monoalkylamines and – by GC/MS 652
Dialkyl-N′-benzoylurea-chelates
– complex stability of N,N— with coordination sites O, S, Se 621
Dialkyl sulfides
– sepn. of – by ligand exchange GC 416
Dialkyltriazene
– detmn. of – and metabolites in blood plasma by reversed-phase HPLC 245
Diamines
– detmn. of – and polyamines in biological fluids by chemiluminescence 522
2,7-Diaminofluorene
– detection of hemoglobin in cells with – by spectrophotometry 348
Diantipyrylmethane
– detmn. of gold in ores with Michler's thioketone, selective extr. with – 331
– detmn. of titanium in steel with – by spectrophotometry 322
Diastereoisomers
– sepn. of – by chromatography, thin-layer on silica, solvent selectivity effects 407
Diazacrown ether dyes
– detmn. of lead with – 644
Dibenzo-18-crown-6
– sepn. of anions on silica gels coated with cross-linked poly— 126
Dibenzofurans
– detmn. of dioxins and – by GC/MSD 335
Dibenzofurans, chlorinated
– dioxins, chlorinated and – in the total environment, II, book 564
Dibromo 1,2-$^{14}C_2$ ethane
– anal. of radiochem. purity of ^{14}C chloroform and – by HPLC 499
Dichloroacetates
– sepn. of n-alkyl acetates, monochlorinated C_1–C_8, chloroacetates, – and trichloroacetates by capillary GC 499
1,2-Dichloroethane
– detmn. of tetrachloromethane, chloroform, – and benzene in germanium tetrachloride by GC 504
Dichlorohydrin
– detmn. of – in process streams by GLC 651
2,4-Dichlorophenoxyacetic acid
– detmn. of – in soils by GC 579
Dichrotitrator
– photometric titration, solid-state – 492
Diclofenac
– detmn. of – in synovial fluid by HPLC 244
Dicyclohexylammonium nitrite
– anal. of – by IR, NMR and GC/MS 507
Diesel exhaust
– detmn. of aldehydes in – by spectrophotometry 426
– detmn. of azaarenes and aminoarenes in – by LC 426
Diesel fuel
– detmn. of hydrocarbons, polycyclic aromatic in – by capillary GC 651
Diet foods
– detmn. of fructose and sorbitol in – by enzymatic method or HPLC 431
Diethyldithiocarbamates
– anal. of trace metals as – in water by GC 427
Diethylene glycol
– detection of – in wine by TLC 225
– detmn. of carbohydrates, alcohols and – in wine by HPLC 225
– detmn. of – in wine by capillary GC 430
– detmn. of – in wine by Carbopack B purification and GC 430
– detmn. of – in wine, grape juice and grape juice concentrates by GC 580
Diethylstilbestrol
– detection of – residues in meat by HPLC/radioimmunoassay 582
Diffusion layer
– anal. of the – of electrodes by microelectrode probe 636
Digoxin
– detmn. of – by competitive heterogeneous enzyme immunoassay 518
Dihydrofolate reductase
– detmn. of – activity in tissues by pH-Stat titration 241
Dihydrofurochinoleinium-alkaloids
– detmn. of – in plant tissues by TLC and fluorodensitometry 336
2,4-Dihydroxyacetophenone thiosemicarbazone
– sepn. of silver(I) from plating solutions by extr. with – 647
– sequential extr. detmn. of copper and nickel with – 640
Dihydroxybenzenes
– detection of – in TLC, coupled redox-complexing reactions 501
3,7-Dihydroxyflavone
– detmn. of hafnium and zirconium with – by fluorimetry 644
Diltiazem
– detmn. of – and metabolites in blood plasma by HPLC 244
2,3-Dimercaptopropane-1-sulfonic acid
– detmn. of – and other dithiols in biological fluids by HPLC, as bromobimane derivatives 448
5-(4-Dimethylaminobenzylidene)rhodanine
– detmn. of silver grains in autoradiograms of biological materials using – 520
Dimethylaminohydroxypropoxytriamterene
– detmn. of – in biological fluids by TLC 443
Dimethylglycine
– detmn. of – in biological fluids by HPLC with enzymatic detection 343
2,6-Dimethylpyridine
– sepn. of – and 2,6-bis(chloromethyl)pyridine by GC 230
Dimethylsulfoxide complexes
– sepn. of metals as – by chromatography, paper 311
1,3-Dimethyluric acid
– ^{13}C NMR charact. of an O-alkylated derivative of – 233
3,5-Dinitrobenzoic acid
– detmn. of – by photometry 219
Dinitrodiphenyloxide
– detmn. of polynitrodiphenyloxides in 4,4′— by spectrophotometry 509
Diode array
– flow injection analysis with – detection for study of equilibrium constants 492
Dioxins
– detmn. of – and dibenzofurans by GC/MSD 335
Dioxins, chlorinated
– and dibenzofurans, chlorinated in the total environment, II, book 564
Dipeptides
– polarographic detmn. of cysteine-containing – 344
– sepn. of – by HPLC 438
– sepn. of geometric isomers of carbamyl peptides, – by HPLC 231
Diphenhydramine
– detmn. of chlorpheniramine and – in pharmaceutical products by HPLC 433
– detmn. of – hydrochloride in pharmaceutical formulations by GC 517
Diphenylcarbazide
– detmn. of rhodium with – and α-picoline by extr. spectrophotometry 414
Diphenylguanidine
– detmn. of palladium with PAR by extr. spectrophotometry, – for higher sensitivity 320
Dipipanone
– detmn. of – in blood plasma and urine by HPLC 528
2,2′-Dipyridyl-2-quinolyl-hydrazone
– detmn. of vanadium in steel with – by extr. -spectrophotometry 322
Disaccharides
– anal. of – from hyaluronic acid and chondroitin by HPLC 237
Disinfectants
– detmn. of –, phenols in waste water by capillary GC 20
Distillation, fractional
– computer-controlled laboratory column for – 210
Disulfides
– detmn. of thiols and – by photometric titration 416
– electrochem. study of thiols and – using modified electrodes 415
Ditalimfos
– detmn. of – by LC 586
Dithiocarbamate
– detmn. of trace elements in natural water by ICP-AES, preconc. by – extr. 658
Dithiocarbamates
– anal. of metal ions via chromatographic derivatization with – by HPLC 116
– detection of trace heavy metals as – by RP-HPLC 285
N-(dithiocarboxy)sarcosine
– preconc. of cobalt with – and Amberlite XAD-4 resin 414
Dithiodianiline
– estim. of techn. – composition by chromatographic methods 222
Dithiols
– detmn. of 2,3-dimercaptopropane-1-sulfonic acid and other – in biological fluids by HPLC, as bromobimane derivatives 448
Dithizone
– photometric titration for standardization of – solutions 493
– studies with –, interaction of thallium(III) in organic solvents 493
Diuretics
– sepn. of – by HPLC, influence of the chain length of chemically bonded phases 244
Divinylacetylene
– detmn. of – and acetic acid as microimpurities in vinyl acetate by GC 508

Dixanthogens
– detmn. of – in flotation liquors by extr. and UV spectrometry 647
DNA
– detmn. of –, comparison of four assays 596
DNA-hydrolysates
– detmn. of thymine and 5-bromouracil in – by GC/MS/SIM 441
DNA methyltransferases
– detmn. of –, new electrophoretic methods 242
Dobutamine
– detmn. of – in blood plasma by HPLC 245
Dodecyl sulfate
– thermometric titration of – ions 653
Dodine
– detmn. of – in fruits by GLC 225
Doxapram
– assay for – in urine and blood plasma by capillary GC with N-P detection 245
Doxepin
– detmn. of – and nordoxepin in urine by HPLC 444
Doxorubicin
– detmn. of – in blood plasma by radial compression HPLC 527
Drugs
– anal. of – by mass spectrometry, LD/FT/ICR 514
– anal. of – in blood plasma by automated HPLC 593
– anal. of –, survey 514
– anatomical-microchemical anal. of –, book 303
– derivatization of – and bioorganics for improved detection by chromatography, gas 432
– detmn. of bromide in – with phenol red by automated FIA 515
– fate and metabolism, book 304
– ident. of – by TLC/GC/UV, computer search system 514
– ident. of – using chromatography, thin-layer, book 565
– sample pretreatment in trace detmn. of – in biological fluids 348
Drugs, basic
– detmn. of – in biological fluids by extr. and dual capillary GC/NPD 593
Drugs, racemic
– direct HPLC resolution of – 432
DTPA
– detmn. of EDTA, DCTA and – by catalytic titration with manganese 492
D^u
– detmn. of –, blood grouping by continuous spectrophotometry 588
Dust
– predicting and measuring fugitive –, book 563
Dyes
– detection of – on polymer surfaces by LAMMA 328
– ident. of – and heavy metals in finger dyes, book 198
– ident. of natural red – in old Indian textiles by TLC 329
– ident. of – on textiles by derivative spectrophotometry 329
– quantitation of acid fast – by HPLC with a diode array detector 654
– sepn. of – by supercritical fluid chromatography 654
Dyes, disperse
– detmn. of – in polyester fibres and HPLC 328
Dysprosium
– detmn. of samarium, gadolinium and – in uranium products by direct current plasma spectrometry 650
– detmn. of terbium and – as complex compounds by luminescence method 642

E

Ecdysteroids
– detmn. of – as trimethyl silyl ethers by GC 347
EDTA
– detmn. of – by amperometric flow injection anal. 492
– detmn. of copper and cobalt with – by derivative spectrophotometry 316
– detmn. of –, DCTA and DTPA by catalytic titration with manganese 492
– detmn. of iron(III) with –, indicators, metallochromic by complexometry, review 214
Effluents
– detmn. of chemical oxygen demand in waste water and – by FIA 657
Elastomers
– thermal analysis of – 653
Electrochemical phase analysis
– review, application for solid materials 206
Electrochemistry
– spectrometry, impedance in – 573
Electrodes
– anal. of the diffusion layer of – by microelectrode probe 636
– chemically modified –, poly(pyrrole-N-carbodithioate) electrode 636
– comparison of microbiol sensors based on amperometric and potentiometric – 587
Electrodes, ion-selective
– application of – in reaction kinetics and kinetic analysis 208
– CHEMFET, ISFET, GASFET as alternatives for conventional – 571
– coated-wire – 489
– detmn. of boron by –, nitron-tetrafluoroborate liquid membrane electrode 178
– detmn. of calcium in biological materials by –, minielectrode with microincubation chamber 314
– detmn. of chloroorganic compounds by chromatography, liquid or flow-injection analysis with detector based on – 11
– detmn. of chlorpromazine, amitriptyline, propantheline and meperidine by –, prep. of liquid membranes 517
– detmn. of iodide with coated tubular solid-state – incorporated in flow-injection systems 247
– detmn. of ionization constants of sparingly soluble organic bases by – 314
– detmn. of lead with – 572
– detmn. of lithium in blood serum with –, Li- or Ba-electrode 314
– detmn. of metal ions using –, choice of metal-buffer system composition 208
– detmn. of surfactants by – 508
– influence of certain factors on the potential of valinomycine-based potassium – 640
– lithium, – based on non-cyclic polyether diamide carriers 572
– neutral-carrier based – 571
– prep. of chloride –, based on Hg_2Cl_2–HgS 636
– solvent polymeric membrane – 489
– sulfate and phosphate –, review 572
– theory and applications of – 636
Electrodes, pH-sensing
– poly- and monocrystalline antimony, iridium and palladium as materials for – 572
Electron microscope, scanning
– spectrometry, X-ray fluorescence in – 404
Electrophoresis
– anal. of proteins by –, electrotransfer from polyacrylamide gels to cellulose membrane 438
– apparatus for – in microcapillary polyacrylamide gels 636
– , elimination of electroendomosis and solute adsorption 206
– hydrated cellulose-based supports for membrane – 635
Electrophoresis, capillary zone
– sepn. of proteins by –, in untreated silica tubes 523
Electrophoresis, gel
– anal. of proteins by –, protein transfer from gels onto nitrocellulose paper 438
– detection of α-fetoprotein by – with antibody-affinity blotting 524
– detection of proteins in –, staining with colloidal iron 591
– detmn. of molecular weight of proteins by –, standard curves 523
– detmn. of serine proteases in biological fluids by –, detection by chromogenic substrate autography 529
– , exponential gradient maker for minigel systems 635
– , gel transfer tank for immunoblotting 232
– ident. of disulfide-bonded polypeptides by SDS – 591
– , longitudinal gel slicer for cylindrical gels 635
– sepn. of histones by –, acid-urea-Triton gels 236
– sepn. of polypeptides by –, with gradient gel 438
Electrophoresis, thin-layer
– sepn. of amino acids by –, with cooling plate 207
Electroplating baths
– detmn. of copper in industrial –, fiber-optic cell 324
Elemental analysis
– of water samples by spectrometry, ICP, problems 558
Elementorgano compounds
– criterion for stationary phase selection for chromatography, gas of reactive – 488
Elements
– detmn. of – in biological materials spectrometry, X-ray fluorescence, sample prep. by carbonisation technique 340
– detmn. of – in cigarettes by NAA 584
– detmn. of – in cigarettes by NAA, transference to smoke 584
– detmn. of – in environmental materials by isotope dilution MS 141
– detmn. of – in geological materials by ICP-AES, matrix effect of calcium 330
– detmn. of – in silver-copper coins by AAS 323
– detmn. of pesticides, – and chemicals in foods, total diet study, tables 432
– influence of thiourea on the cation exchange behavior of – in dilute nitric and hydrochloric acid 568
– prediction of conditions for solvent extr. spectrophotometry of – 403
– sepn. of – by chromatography, ion exchange on Retardion 11A8 307
– sepn. of – in fission products by extraction with tetracycline 425
Elements, hydride-forming
– group atomic fluorescence detmn. of – using GC 484
Enantiomeric ratios
– detmn. of – of amino acids by GC 235
Enantiomers
– HPLC resolution of – on optically active poly-(triphenylmethylmethacrylate) 203
– sepn. of – by chromatography, HPLC, new chiral phases 486
– sepn. of – by chromatography, HPLC on silica gel with covalently bound monosaccharides 405
– sepn. of – by chromatography, HPLC, R-N-(pentafluorobenzoyl)phenylglycine as chiral phases 569
– sepn. of – of α-alkyl amino acids by TLC 298
– sepn. of – of amphetamine and related amines by HPLC 625
– sepn. of – of N-acyl amino acids without preceding derivatisation 559

Endotoxins
– detmn. of fatty acid composition of – from bacteria by GC 342
English
– for chemists, book 401
Enoxacin
– detmn. of – and metabolite in blood plasma, urine and saliva by HPLC 245
Enrichment
– of elements from non-aqueous solutions of metal chelates 409
Environment
– detmn. of aldehydes in the air of working – 426
– dioxins, chlorinated and dibenzofurans, chlorinated in the total –, II, book 564
Environmental analysis
– combination of flow-injection techniques with spectrometry, atomic in agricultural analysis and – 576
Environmental chemistry
– receptor modeling in –, Vol. 76 in Chemical Analysis, book 400
Environmental materials
– detmn. of aldehydes and ketones in – by LC/MS, 2,4-dinitrophenylhydrazine derivatives 511
– detmn. of alkyl halides and epoxides in – in HPLC, picric acid derivatization 511
– detmn. of elements in – by isotope dilution MS 141
– detmn. of lanthanides, La, Ce, Nd, in – by energy dispersive X-ray fluorescence, sample preparation 105
– detmn. of phosphates and polyphosphates in – 428
– detmn. of traces of heavy metals in seage sludges, soils and related – with a thermal ionization quadrupol mass spectrometer 24
Environmental samples
– contamin. of air and – by radioactive fission products after Chernobyl accident 597
– detmn. of heavy metals in water and – by AAS after sorption preconc. 513
– detmn. of pesticides in –, preconc. on macro cross-linking carbon chain sorbents 338
– sepn. of organic compounds, hydrocarbons, polycyclic aromatic from –, particulates, solvents and extr. methods 660
Enzymatic analysis
– methods of –, Vol. IX: proteins and peptides, book 481
– methods of –, Vol. X: antigens and antibodies, book 563
Enzymatic dot-immunobinding assays
– with simple transmission photometer 588
Enzyme electrode
– detmn. of chymotrypsin and trypsin, – 572
– detmn. of glucose in blood, – with glucose dehydrogenase 346
– detmn. of oxalate in urine by immobilized – 590
– detmn. of oxalate in urine using oxalate oxidase – 436
– detmn. of total and free cholesterol in blood serum by amperometric assay with – 238
– improved blood compatibility at glucose – for extracorporeal monitoring 588
Enzyme immunoassay
– anal. of benzodiazepines in blood serum by – EMIT-TOX 348
– detmn. of estriol by bioluminescent – 238
– detmn. of immunoglobulin G by sandwich – 345
Enzyme reactors
– detmn. of hydrogen peroxide traces with immobilized – by FIA 640
Enzymes
– detection of inactive – and proteins in electrophoresis, immunodetection on Cellogel 241
Enzymes
– detmn. of – in automated flow-injection systems 441
– detmn. of pyrroloquinoline quinone in – by enzymatic methods 241
– sepn. of – in tobacco plants by chromatofocusing 577
Eosin
– anal. of hydrocarbons, polycyclic aromatic with proflavin and – by fluorimetry 219
Epinephrine
– sepn. of enantiomeric amino alcohols, – and analogues by capillary GC after derivatization with diazomethane and phosgene 517
Epoxides
– detmn. of alkyl halides and – in environmental materials in HPLC, picric acid derivatization 511
Epoxy resins
– detmn. of aromatic – in air by IR spectrometry 333
Equilibrium constants
– calculation of – from multiwavelength spectroscopic data, factor analysis 210
Equivalence volume
– anal. of variance in detmn. of – and ionic product of water in potentiometric titration 638
Eriochrom Black T
– conc. of trace metals by chromatography, extraction, with – 307
Errors
– examination of – of symmetric titrations 409
Errors, systematic
– spectrometry, atomic absorption, minimization of –, applications 484
Erythrocyte membranes
– sepn. of proteins of – by isoelectric focusing 591
Erythrocytes
– detmn. of josamycin in blood plasma, – and leucocytes by HPLC, alternating clean-up columns 527
– detmn. of thiamine diphosphate in – by HPLC 525
Erythrulose
– detmn. of D– by enzymatic and colorimetric methods 439
Escherichia coli
– detmn. of β-galactosidase in – by bioluminescence, 2-nitrophenyl-Δ-D-galactopyranoside as substrate 530
Essential oils
– anal. of – using GC/FTIR spectrometry with capillary columns 433
Esters, halogenated
– sepn. of – by glass capillary GC 500
Estradiol 3-benzoate
– detmn. of estradiol dienanthate, – and testosterone enanthate benzylic acid hydrazone by HPLC 232
Estradiol dienanthate
– detmn. of –, estradiol 3-benzoate and testosterone enanthate benzylic acid hydrazone by HPLC 232
Estradiol esters
– anal. of –, testosterone and progesterone in oily injections 435
Estradiolhydroxylases
– detmn. of – by HPLC 241
Estriol
– detmn. of – by bioluminescent enzyme immunoassay 238
Estriol benzoate
– detmn. of testosterone propionate, progesterone and – in bovine implants by HPLC 435
Ethanol
– detmn. of – in alcoholic beverages by GC, accuracy 580
– detmn. of – in blood by fluorescence-quenching, REA-method 342
Ethanol
– detmn. of – in blood serum by radioactive energy attenuation assay 590
– detmn. of – in breath, comparison of methods 589
– detmn. of methyl t-butyl ether, benzene, toluene and – in gasoline by LC 326
– high-temperature pyrolysis of – 507
Ethchlorovynol
– detmn. of acetylenic hypnotics, –, ethinamate and meparfynol carbamate by titration of spectrophotometry 516
Ethinamate
– detmn. of acetylenic hypnotics, ethchlorovynol, – and meparfynol carbamate by titration of spectrophotometry 516
Ethiofos
– detmn. of – in blood plasma by HPLC 596
10-Ethyl-10-deazaaminopterin
– anal. of 10-deazaaminopterin, – in blood plasma and urine by HPLC/fluorimetry 445
Ethylene
– Clark oxygen electrode, influence of acetylene, – and methane 314
– detmn. of humidity of – by reaction chromatography 511
Ethylene diamine
– characteristics of – in chromatography, ion of metal ions 405
Ethylene dibromide
– detmn. of – in grain products by GC, purge and trap method 229
Ethylene glycol
– detmn. of – in antifreeze solutions and motor oils by HPLC as iodate 224
Ethyleneglycolbis(ethylthioacetic acid)
– detmn. of mercury(II) with – by amperometric titration 316
Ethylene oxide
– detmn. of – in medical devices by headspace GC 342
– detmn. of residual – in sterilized plastics by headspace GC 327
Ethylisobutrazine hydrochloride
– detmn. of platinum with – by spectrophotometry 321
Ethylmercury
– detmn. of methylmercury and – in blood and tissues by capillary GC with ECD 447
1-Ethyl-2,3,5-triacetylbenzol
– as reagent for amino acids 561
Eumelanin
– anal. of –related indolic compounds in urine by HPLC 446
Europium
– detmn. of samarium, –, ytterbium and lutetium in silicate rocks by AES 509
– sepn. of uranium, americium and – by extr. with LIX 64 317
Europium(III)
– indirect detmn. of uranium(VI) by measurement of fluorescent emission by – 643
– partition of – with β-diketones and neutral additives 317
Exhaust gases
– detmn. of particulate size distribution in – of ICP-AES spectrometers 656
Explosives
– anal. of – by tandem MS 329
– sepn. of nitro derivatives in – by two-dimensional TLC 576
– trace anal. of – by thermospray HPLC/MS 654
Extractants
– detmn. of uranium in – by spectrophotometry 327
Extraction
– detmn. of amines and ammonium salts, quaternary in multi-compound mixtures by – spectrophotometry and thermochromism of ion-association complexes 484

Extraction
– ion-exchange and solvent –, book 482
– sepn. of alkaline earth cations by competitive solvent – by acylic diionizable polyethers 641
– sepn. of elements in fission products by – with tetracycline 425
Extraction, liquid-liquid
– in inorganic analysis, status and prospects 490

F

Factor analysis
– calculation of equilibrium constants from multi-wavelength spectroscopic data, – 210
– prediction of partition coefficients in phase system composition by – for chromatography 209
– resolution of chromatographic peaks, overlapping by evolving – 638
Factors
– transformation, non-linear of – in empirical modelling based on experimental designs 210
Fats
– anal. of antioxidants in oils, edible and – by HPLC 582
– detmn. of 5α-androst-16-en-3-one in – by capillary GC with ECD 226
– detmn. of – in vegetable foods by Gerber method 226
– detmn. of –, protein and lactose in ewe milk by automated IR spectrometry 583
– detmn. of solid – content in cacao butter by pulsed NMR 226
– detmn. of triglycerides in – by HPLC, special tempering procedure 431
– HPLC anal. of oxidative and polymerized decomposition products in oils, vegetable and heated – 582
– sepn. of triglycerides in confectionery – by HPLC/UV detection 431
Fatty acid composition
– detmn. of – of endotoxins from bacteria by GC 342
– of lipids of plant leaves 336
Fatty acid esters
– anal. of – in blood plasma by HPLC and GLC, comparison of methods 439
Fatty acids
– detmn. of $C_{10:0}$–$C_{22:6}$ – as 2-nitrophenyl-hydrazides by reversed-phase HPLC 226
– detmn. of free – and triglycerides in milk fat by GC, derivatization catalyst 431
– detmn. of free – in blood plasma by HPLC 237
– detmn. of free – in blood serum by HPLC with fluorescence detection 439
– detmn. of free polyethyleneglycols in hydroxy-ethylated – by ^{1}H NMR spectrometry 416
– detmn. of higher – in phospholipids by GC and TLC 237
– detmn. of lead and bismuth in ores by complexometry, extr. with – 331
– detmn. of long-chain – in blood plasma by GC/MS 342
– extr. alkylation of – with phenacyl bromide, studies by LC 416
– HPLC of triglycerides of Flacouriaceae seed oils containing cyclopentenyl – 577
– sepn. of – in tissues by HPLC 439
Feces
– detmn. of metal-EDTA complexes in – by TLC 340
– detmn. of total carbohydrates in – by spectrophotometry 439
Feed premixes
– detmn. of oxfendazole in – by LC 578
– detmn. of oxytetracycline in – and veterinary products by LC 578
Feeds
– detmn. of amino acids in sorghum grains, – by amino acid analyzer 337
Feeds
– detmn. of avoparcin in –, interferences by other feed additives 578
– detmn. of gizzerosine in – by HPLC 577
– detmn. of monensin, narasin and salinomycin in – by HPLC 337
– detmn. of retinol and α-tocopherol in – by LC, cartridge extr. 337
– detmn. of selenium in –, decomposition methods 381
– spectrometry, IR in anal. of – 336
Fenoprofen
– enantiospecific HPLC anal. of 2-phenyl-propionic acid, ketoprofen and – in biological fluids 243
Ferric oxides
– detmn. of sulfates in – by LC and titration 504
Ferrimycobactin
– salicylate response of – membrane electrodes, siderophores 572
Ferroalloys
– anal. of –, review 648
Ferrocene reagents
– for derivatization of alcohols by HPLC with electrochem. detection 415
Ferrocenes
– Gmelin handbook, ironorgano compounds, – 197
Ferrochrom
– detmn. of iron(II) in – by coulometry 422
Ferron
– adsorption of metal complexes with – on Zeo-Karb-226 for AAS 168
Ferrous metallurgy
– new certified standard reference materials of – 502
Fertilizers
– anal. of – and plant materials by NAA for N, P, K and Si 579
– detmn. of biuret in urea and – by cupric ion-selective electrode 579
– detmn. of nitrogen in – with Parnas-Wagner distillation apparatus 579
α-Fetoprotein
– bioluminescent immunoassay for – 524
– detection of – by electrophoresis, gel with antibody-affinity blotting 524
Field-effect transistors
– chemically-sensitive – 571
Field flow fractionation
– effect of particle conformation on retention in sedimentation – 310
– sepn. of water-soluble polymers by – 653
– , stop-flow technique, optimization 209
Fig juice
– detection of – in grape juice by HPLC of flavon-C-glycosides 225
Finger dyes
– ident. of dyes and heavy metals in –, book 198
Firefly luciferase
– assays with immobilized –, luciferase based on flow injection analysis 436
Fish
– detmn. of nickel and cobalt in biological materials, – by voltammetry 514
– detmn. of phenols in smoked –, problems in solvent extr. 227
– detmn. of vitamin B_2 in serum of – by HPLC 227
Fission products
– contamin. of air and environmental samples by radioactive – after Chernobyl accident 597
– sepn. of elements in – by extraction with tetracycline 425
Flavanones
– sepn. of isomeric chalkones and – by TLC 418
Flavon-C-glycosides
– detection of fig juice in grape juice by HPLC of – 225
Flocculants, polymeric
– detmn. of cationic – by flow injection anal. 224
Flotation
– sepn. of hafnium(IV) from aqueous solutions 213
Flotation liquors
– detmn. of dixanthogens in – by extr. and UV spectrometry 647
Flour
– detmn. of organic bound metals in aqueous extracts of soya and wheat – by gel-/ion-exchange-chromatography 121
Flow injection analysis
– , a personal review 490
– assays with immobilized firefly luciferase, luciferase based on – 436
– a submersible – system 657
– chloride-selective electrode in – 497
– commutation in – 408
– constant-potential pulse polarographic detection in – 492
– controlled-dispersion – applied to clinical chemistry 491
– detmn. of acids and bases by peak width measurements in – 637
– detmn. of acids, bases, metal ions and redox species by peak width measurements in – 637
– detmn. of chloroorganic compounds by chromatography, liquid or – with detector based on electrodes, ion-selective 11
– detmn. of immunoglobulin G in blood serum by – 345
– detmn. of three N-substituted phenothiazines by –, amperometric detection at carbon fibre array electrode 231
– experimental comparison of – and air-segmented continuous-flow analysis 637
– flow cell and diffusion coefficient effects in – 637
– flow-through sandwich PVC matrix membrane electrode for – 408
– FORTH package for computer-controlled – 408
– hydrodynamically limited precision of gradient techniques in – 491
– hydrodynamic injection in – of chromium in steel 649
– in on-line process control 491
– ion-exchange minicolumns in a – system for detmn. of anions 492
– laminar-flow bolus shapes in – 491
– multicomponent detmn. in – with square-wave voltammetric detection and Kalman filter 208
– peak width and reagent dispersion in – 491
– potentiometric detection in – 408
– selectivity enhancement in – 491
– simple injection valve for – 637
– simult. detmn. by iterative spectrophotometric detection in a closed – system 491
– simult. multi-wavelength detection in – 492
– speciation studies by – 209
– strongly oxidizing agents in –, cobalt(III) 637
– strongly oxidizing agents in –, manganese(III) 637
– studies of interacting biochemical systems in – 435
– the first decade of – 490
– time-based – 490
– unsegmented extr. systems in – 408
– with diode array detection for study of equilibrium constants 492
– with gradient chamber and linearly responding detector 491
Flow-injection systems
– detmn. of enzymes in automated – 441
– detmn. of iodide with coated tubular solid-state electrodes, ion-selective incorporated in – 247

Flow-injection techniques
– combination of – with spectrometry, atomic in agricultural analysis and environmental analysis 576
Flue gases
– detmn. of sulfite in – by enzymatic spectrophotometry 426
Flunarizine
– detmn. of – in blood plasma by HPLC 594
Fluocortolone
– ident. of trimethylacetate and caproate ester of – from pharmaceutical preparation using HPLC and Raman microspectrometry 434
Fluorescein
– minimisation of bilirubin interference in the detmn. of – using first-derivative synchronous excitation fluorescence spectrophotometry 588
Fluorescence decay measurements
– fluorimetry, –, instrumental response function 567
Fluorescence polarization immunoassay
– detmn. of theophylline in saliva by – 446
Fluorescence quenching titration
– descript. of copper(II) complexes of humic material, aquatic by – 68
Fluorescence, room-temperature
– and phosphorescence, room-temperature of organic compounds adsorbed on solid surfaces 632
Fluorescent compounds
– detection of hydrogen peroxide and –, new aryl oxalates for peroxyoxalate chemiluminescence reactions 632
Fluoride
– detmn. of –, automated system 214
– detmn. of –, zirconium(IV) with PAR by spectrophotometry 413
– improved photometric detmn. of – by addition of sodium dodecyl sulfate 413
Fluorimetry
– assay of thiols by –, new reagent 415
– detmn. of selenium in sediments by –, DAN after tellurium coprecipitation 539
– , fluorescence decay measurements, instrumental response function 567
– , inner filtering effect in double-pass cells 305
– , laser dyes as quantum counters 567
– , least-squares multi-component anal. 639
Fluorine
– detmn. of – in binary metal fluorides by ion-selective electrode 423
– detmn. of – in organic compounds by oxygen-flask combustion and potentiometric titration 499
Fluoroalkanesulfonates
– anal. of – by FAB and tandem mass spectrometry 327
5-Fluorocytosine
– detmn. of 5-fluorouracil and – by HPLC 231
Fluorophores
– detmn. of fluorescence efficiencies of – in highly absorbing solutions 567
5-Fluorouracil
– detmn. of – in blood plasma by capillary GC/MS 444
– detmn. of – in blood plasma by HPLC 445
– detmn. of – and 5-fluorocytosine by HPLC 231
Fly ashes
– detmn. of germanium in lignite – by flameless AAS 506
– detmn. of sulfur in – by proton activation anal. 506
– detmn. of thallium in city waste incineration – by Zeeman AAS 333
– detmn. of trace elements in – by STPF-AAS 654
Folin reagent
– detmn. of proteins with – study of redox stoichiometry and reaction products 344
Folpet
– detmn. of captan, – and captafol in water, fruits and vegetables by TLC 585
Food analysis
– Schweiz. Lebensmittelbuch, –, drinking water 400
Food colors
– detmn. of – with chlorosuccinimide, N- by titration 228
– extr. of organic acids, – by ion-pair formation with tri-n-octylamine 228
Foods
– detmn. of aflatoxins in – by reversed-phase HPLC, post-column iodine derivatization 432
– detmn. of amines, biogenic in – by HPLC/thermosensitized reaction 581
– detmn. of chloramphenicol in – by HPLC 470
– detmn. of fats in vegetable – by Gerber method 226
– detmn. of methionine sulfoxide in proteins and – by amino acid analyzer 226
– detmn. of methyl bromide in – by headspace GC 228
– detmn. of ochratoxin A in – by TLC, screening by LC 228
– detmn. of pesticides, elements and chemicals in –, total diet study, tables 432
– detmn. of pesticides in – by capillary GC, computer program for ident. 338
– detmn. of pesticides in – by GC 338
– detmn. of polysaccharide gums in – by GC 225
– detmn. of sucrose in – by chemiluminescecne FIA 581
– detmn. of tryptophan in –, after barytic hydrolysis by gel chromatography 581
– detmn. of vitamin B_6 in – by HPLC 227
– detmn. of wheat gliadins in – by ELISA 431
– ident. of sulfite on –, test strip 430
– phenols in smoke dust for –, detection and ident., book 564
– sepn. of soft wheat gliadins in – by electrophoresis 431
Forest decline
– , influence factors and their estimation, book 481
Formaldehyde
– detmn. of – in nail varnish and HPLC 328
– detmn. of – in surgical materials by GC 589
Formate
– detmn. of – by amperometry with a nickel electrode 328
– detmn. of – in blood serum by enzymatic spectrophotometry 590
Formic acid
– detmn. of acetic acid, – and propanoic acid in rain water and HPLC 333
Fossil fuels
– anal. of – and polymers by thermal anal./MS 325
Freon-12
– detmn. of – in air by diode laser spectroscopy 332
Fructose
– detmn. of – and sorbitol in diet foots by enzymatic method or HPLC 431
Fruit juices
– detmn. of ascorbic acid in blood plasma and – with ascorbate oxidase 228
– detmn. of ascorbic acid in pharmaceutical products and – by spectrophotometry, as Cu(I) with neocuproin 580
– detmn. of ascorbic acid in soft drinks and – by UV spectrometry 228
– detmn. of phenolic acid in – by LC with voltammetric detection 218
Fruits
– detmn. of captan, folpet and captafol in water, – and vegetables by TLC 585
– detmn. of dodine in – by GLC 225
Fruits
– detmn. of water and ascorbic acid in dry – by coulometry 580
Fucosyltransferase
– detmn. of α-L-(13)– in blood serum with N-acetyl-2′-O-methyllactosamine as acceptor 242
Fuel oils
– detmn. of benzenes, chlorinated in – by on-line LC/GC 221
– detmn. of trace elements in –, evaluation of standard reference materials 220
Fuels
– detmn. of elemental sulfur in jet – by differential pulse polarography 326
Fungicides
– detmn. of –, metacid and inctedin with sulfnitrazo R by spectrophotometry 585
Furanocoumarins
– detmn. of – in celery by reversed-phase HPLC 225
Furocoumarins
– sepn. of coumarins and – by TLC and HPLC, reversed phases 418

G

Gadolinium
– detmn. of samarium, – and dysprosium in uranium products by direct current plasma spectrometry 650
Galactose
– mediated amperometric biosensors for D–, glycolate and L-amino acids 587
β-Galactosidase
– detmn. of – in escherichia coli by bioluminescence, 2-nitrophenyl-Δ-D-galacto-pyranoside as substrate 530
Gallamine
– detmn. of – in blood plasma by HPLC 443
Gallium
– complexation with – and indium of Picramin M 643
– detmn. of mercury traces in – by anodic stripping voltammetry 419
– detmn. of – with 2-hydroxy-2-methylbenz-aldehyde-semicarbazone by fluorimetry 321
– detmn. of – with Picramin M by spectrophotometry 643
– detmn. of – with tetraphenylpyridinium perchlorate by extr. spectrophotometry 643
– effect of solvation on reactions between aluminum, –, indium, zinc, cadmium and azo compounds 212
– effect of temperature of complexation in a – 4,4′-bis(catecholazo) biphenyl system 212
– sepn. of –, indium and thallium by extr. with Amberlite or Aliquat 643
– sepn. of – with Amberlite LA-2 by solvent extr. 412
Gallium arsenide
– detmn. of silicon in – by spectrophotometry and polarography 272
Galvanic baths
– detmn. of bismuth in – using a iodobismuthate electrode 324
– single-column chromatography, ion of weak inorganic acids in glass and – 650
Galvanic electrolytes
– detmn. of gold in – using ion-seletive electrodes 324
– detmn. of hexacyanoferrate(III) in – by spectrophotometry 325
Ganglioside glycosyltransferase
– detmn. of – by ion-exchange chromatography 442
Garbage dump gases
– detmn. of halogenorgano compounds in – by GC/MS 365
Garlic
– detmn. of triazophos in – by GC 393

Gases
– anal. of – by chromatography, gas, accurate sampling of sub-atmospheric pressure samples 511
– anal. of inorganic – by isotopic spectral analysis, review 511
– anal. of permanent – by GC with detector, helium ionization 333
– detmn. of inorganic – and gas mixtures in air by negative ion mobility spectrometry 510
– detmn. of oxygen in – by new palladium detector, operating conditions 547
– detmn. of permanent – and light hydrocarbons by GC, parallel with packed and capillary columns and computer integration 333
– generator for dynamic generation of test – 64
– gravimetric calibration of standard – 655
Gases, inorganic
– mass spectrometry of mixtures of –, review 656
Gases, reactive
– detmn. of – by GC, resistant columns 511
Gas mixtures
– detmn. of inorganic gases and – in air by negative ion mobility spectrometry 510
Gas, natural
– anal. of sulfur compounds in – by GC 333
Gasoline
– detection of sulfur compounds in naphtha and – with gas electrode detector 573
– detmn. of lead and bromine in – by X-ray fluorescence 326
– detmn. of lead in – by flow-injection spectrometry, atomic absorption 573
– detmn. of methanol in – by ^{1}H NMR spectrometry 326
– detmn. of methyl t-butyl ether, benzene, toluene and ethanol in – by LC 326
– group sepn. of hydrocarbons in – by supercritical fluid chromatography with FID 650
Gas sampling
– artifacts using Tenax-GC for – 652
Gastric juice
– detmn. of bile acids and lysolecithin in – by HPLC 347
Gels
– detmn. of ligands in Phenyl-Sepharose CL-48, –, three methods 652
– quantitation of amino groups on supports, solid, – by spectrofluorimetry 652
Gemfibrozil
– detmn. of – in blood plasma by HPLC 443
Generator
– for dynamic generation of test gases 64
Gentamicin
– detmn. of kanamycin, –, amikacin, aminoglycosides by d.c. polarography 518
Geological materials
– detmn. of elements in – by ICP-AES, matrix effect of calcium 330
– detmn. of gold in – by multiwavelength spectrophotometry 509
– detmn. of manganese and sodium in – by NAA 510
– detmn. of ruthenium traces in – by laser photoionization spectroscopy 510
– detmn. of trace elements in – by ICP-OES 509
Germanic acid
– detmn. of boric acid and – by HPLC, conductometric detection 683
Germanium
– detmn. of – in lignite fly ashes by flameless AAS 506
– detmn. of – in silicate rocks and sulfide ores by hydride generation AAS 331
Germanium hydride
– detmn. of phosphine in high-purity – 504
Germanium tetrachloride
– detmn. of tetrachloromethane, chloroform, 1,2-dichloroethane and benzene in – by GC 504
Gitxerosine
– detmn. of – in feeds by HPLC 577
Glass
– anal. of chromite stone in – 324
– detmn. of boron in – by nuclear track technique 650
– detmn. of tin(II) in – by spectrophotometry 424
– phys. matrix correction in X-ray fluorescence analysis of silicate – 667
– single-column chromatography, ion of weak inorganic acids in – and galvanic baths 650
Glass electrode
– cadmium-selective chalcogenide – 316
– lead(II)-selective chalcogenide – 317
Glassy carbon electrodes
– , activation by vacuum heat treatment 314
Gliadins
– detmn. of wheat – in foods by ELISA 431
– sepn. of soft wheat – in foods by electrophoresis 431
Glucagon
– HPLC of – and related compounds 345
Glucaric acid
– detmn. of D-– in urine by semiautomated centrifugal anal. 590
Gluconate/borate mixtures
– sepn. of anions by chromatography, – as eluents 569
Glucose
– detmn. of – by flow injection anal. with immobilized enzyme tube reactor 418
– detmn. of –, creatinine, free cholesterol and lactic acid using an integrated FIA microconduit 588
– detmn. of – in blood by photoacoustic spectrometry 236
– detmn. of – in blood, enzyme electrode with glucose dehydrogenase 346
– detmn. of pyruvate, lactate and – in cerebrospinal fluid by enzymatic spectrophotometry 522
– detmn. of sucrose in presence of – in a flow-injection system with immobilized multienzyme 417
– improved blood compatibility at – enzyme electrode for extracorporeal monitoring 588
Glucose dehydrogenase
– detmn. of glucose in blood, enzyme electrode with – 346
Glucose-6-phosphatase
– detmn. of – by pH-metrical method 529
Glucose sensor
– based on glucose dehydrogenase adsorbed on a carbon electrode 417
Glutamyltransferase
– detmn. of γ-– in blood by spectrophotometry 242
Glutathione
– anal. of –, glutathione disulfide, glutathione S-sulfonate and cysteine S-sulfonate in cells by HPLC 343
– detmn. of cysteine and – in blood by LC with electrochem. detection 235
Glutathione disulfide
– anal. of glutathione, –, glutathione S-sulfonate and cysteine S-sulfonate in cells by HPLC 343
Glutathione S-sulfonate
– anal. of glutathione, glutathione disulfide, – and cysteine S-sulfonate in cells by HPLC 343
Glycerol
– detmn. of iron(III) with titanium(III) by coulometric titration, stabilisation of Ti(III) with – 208
Glycinebetaine aldehyde
– sepn. of choline, – in plant extracts by HPLC 336
Glycolate
– mediated amperometric biosensors for D-galactose, – and L-amino acids 587
Glycolate oxidase
– detmn. of oxidases, – in peroximal fractions by chemiluminescence 442
Glycoproteins
– detmn. of hexosamines and hexosaminitoles from – by GLC 345
– ident. of cells surface – by periodate-alkaline phosphatase hydrazide 592
Glycopyrronium
– -selective electrodes 231
Glycosaminoglycans
– detection of – by ^{125}I-cytochrome C 345
– spectrophotometric microassay for sulfated – using densitometer, laser 592
Glycosidases
– detmn. of glycoprotein-processing – with ^{3}H substrates 529
Glycosides
– detmn. of total – in mustard seed by turbidimetry 577
Gmelin handbook
– , astatin 401
– , ironorgano compounds, ferrocenes 197
– , ironorgano compounds, polynuclear compounds 401
– , silicon, system Si-C, SiC 197
– , thorium, compounds with S, Se, Te and B 483
– , uranium, supplement Vol. C5, uranium dioxide 400
Gold
– detmn. of – and platinum in alloys by ICP-AES 421
– detmn. of – by voltammetry at dithizone-modified carbon-paste electrode 181
– detmn. of – in galvanic electrolytes using ion-seletive electrodes 324
– detmn. of – in geological materials by multiwavelength spectrophotometry 509
– detmn. of – in ores with Michler's thioketone, selective extr. with diantipyrylmethane 331
– detmn. of – in platinum alloys by coulometry at controlled potential 503
– detmn. of – with a modified carbon paste electrode 316
– enrichment of – and silber on a chelate sorbent POLYORGS XI-N 320
– sorption of –, silver and mercury on cellulose 618
– sorption of silver, – and palladium with polythioether foam 411
Gold(III)
– detmn. of trace amounts of – using oxidation of Variamine blue 640
– sepn. of – with 2-mercaptobenzothiazole 411
Gold processing solutions
– anal. of noble metals in – by HPLC 647
Gossypol
– detmn. of – in blood plasma by HPLC with electrochem. detection 528
Grain products
– detmn. of ethylene dibromide in – by GC, purge and trap method 229
Grains
– detection of deoxynivalenol in – by TLC 228
Granulometry
– and prep. of solid samples, review 424
Grape juice
– detection of fig juice in – by HPLC of flavon-C-glycosides 225
– detmn. of diethyleneglycol in wine, – and grape juice concentrates by GC 580
– detmn. of volatile compounds in – by capillary GC, headspace methods 430
Grazing incidence
– anal. applications of absorption spectroelectrochemistry, at – 207
Group theory
– for chemists, book 565

Growth hormone
– level of human – in urine, detmn. by a sandwich enzyme immunoassay 592
Guanidine hydrogen halides
– interaction of – for oxygen liberation in isotope analysis 213
Guinea Green B
– detmn. of phosphorus traces in water with – by spectrophotometry 512

H

Haematoxylin
– use of – as adsorption indicator in visual titrations 493
Hafnium
– detmn. of – and zirconium with 3,7-dihydroxyflavone by fluorimetry 644
– detmn. of zirconium and – in alloyed steel by sorption AES 419
Hafnium(IV)
– detmn. of – with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol by spectrophotometry 644
– flotation sepn. of – from aqueous solutions 213
Hair
– detmn. of mercury in – by NAA 589
Halides
– anal. of organic compounds in volatile inorganic – by headspace GC/MS 504
– detmn. of – using electrogenerated iodine(I) 497
Halogenobicyclononene carbonitriles
– sepn. of isomeric – by HPLC with RI detector 217
Halogenorgano compounds
– detmn. of – in drinking water for breweries 579
– detmn. of – in garbage dump gases by GC/MS 365
– detmn. of – in water, standardization of AOX method 514
Harzardous gases
– detection of – with portable electrochemical sensors 656
Hazardous substances
– anal. of – in biological materials, Vol. 1, book 481
Heavy metals
– cluster analysis to study – distribution in marine organisms 477
– detection of trace – as dithiocarbamates by RP-HPLC 285
– detmn. of – by potentiometry, stripping, carbon fibre microelectrodes 636
– detmn. of – in water and environmental samples by AAS after sorption preconc. 513
– detmn. of traces of – in sewage sludges, soils and related environmental materials with a thermal ionization quadrupol mass spectrometer 24
– ident. of dyes and – in finger dyes, book 198
– remobilization of – from river sediments through organic complexing agents 658
Hemodialysis fluids
– detmn. of aluminum in – by FIA and AAS 300
Hemoglobin
– detection of – in cells with 2,7-diaminofluorene by spectrophotometry 348
– detection of oxygen by an optical sensor with immobilized – 645
Hemoglobins
– detmn. of glycosylated – by microcolumn LC 441
Hepatitis B surface antigen
– Lowry proteins detmn. by flow injection anal. for bovine serum albumin and – 345
Heptacaine
– sepn. of – metabolites by TLC 515
Heptose nucleotides
– sepn. of – in lipopolysaccharides by borate LC 441
Herbicides
– sepn. of s-triazines, – by countercurrent chromatography 587
Hexabromocyclodecane
– detmn. of – in waste water by ion-selective electrodes 429
Hexacyanoferrate(III)/(II)
– study of – by voltammetry at glassy carbon electrode 207
Hexacyanoferrate(III)
– detmn. of – in galvanic electrolytes by spectrophotometry 325
Hexane
– anal. of n–, 2-hexanone, 2,5-hexanedion in blood plasma by capillary GC and HPLC 349
2,5-Hexanedion
– anal. of n-hexane, 2-hexanone, – in blood plasma by capillary GC and HPLC 349
2-Hexanone
– anal. of n-hexane, –, 2,5-hexanedion in blood plasma by capillary GC and HPLC 349
Hexaphenyldilead
– detmn. of tetraphenyllead and – by chromatography, HPLC, interface for ICP 203
Hexobarbital
– stereospecific anal. of – in blood by capillary GC 444
Hexosamines
– detmn. of – and hexosaminitoles from glycoproteins by GLC 345
Hexosaminitoles
– detmn. of hexosamines and – from glycoproteins by GLC 345
Hexuronic acids
– continuous-flow monitoring of – by carbazole reaction during gel filtration of proteoglycans in urea solutions 439
Histamine
– detmn. of – and N^{τ}-methylhistamine in tissues, animal by HPLC with electrochem. detection 234
Histidine
– detmn. of – and methylhistidines in biological materials by HPLC 236
Histones
– sepn. of – by electrophoresis, gel, acid-urea-Triton gels 236
– sepn. of – by HPLC on C_4 reversed-phase column 524
– sepn. of – in yeast by two-dimensional electrophoresis 439
Hollow-cathode lamps
– improved – for spectrometry, atomic, book 483
Homotropine hydrobromide
– detmn. of – and mandelic acid in eye drops by HPLC 518
Homovanillic acid
– detmn. of vanillylmandelic acid and – in urine by HPLC 522
Humic acids
– UV-extinctions of – in water, influence of elemental composition 691
Humic material, aquatic
– descript. of copper(II) complexes of – by fluorescence quenching titration 68
Humic substances
– removal of – in water prior to measurements with nitrate ion-selective electrode 428
– titration of aquatic – 428
Humidity
– detmn. of – of ethylene by reaction chromatography 511
Hyaluronic acid
– anal. of disaccharides from – and chondroitin by HPLC 237
– detmn. of – in blood serum by enzymeimmunoassay 346
Hydralazine
– detmn. of – in pharmaceutical products by HPLC 516
Hydrazine
– detmn. of urea and – in waste water by simult. spectrophotometry 429
Hydrazines
– detmn. of amines and – by spectrophotometry, oxidation with bis(trifluoracetoxy)iodobenzene 501
Hydrides
– detmn. of volatile – of phosphorus, arsenic, antimony, selenium and tin by photochemical reaction/light-scattering 645
Hydrocarbons
– anal. of mixtures of – and sulfurorgano compounds by EI and pulsed positive negative ion CI chromatography, gas/mass spectrometry 206
– detmn. of – in air by GC 655
– detmn. of – in mineral oils and coal oils by chromatography, chromarod 650
– detmn. of permanent gases and light – by GC, parallel with packed and capillary columns and computer integration 333
– estim. of basic constituents in products of catalytic conversion of – by MSTD 506
– group sepn. of – in gasoline by supercritical fluid chromatography with FID 650
– Kováts retention indices for ident. of – in linear temperature programmed capillary GLC 206
Hydrocarbons, aromatic
– detmn. of – in petroleum fractions by IR spectrometry 220
– detmn. of – in petroleum products by NMR 573
Hydrocarbons, aromatic volatile
– detmn. of hydrocarbons, halogenated volatile and – in soils and sludge by head-space-GC 531
Hydrocarbons, chlorinated
– anal. of – in biological materials, expert discussion 351
Hydrocarbons, halogenated
– detmn. of –, adsorbable on carbon, activated after thermal desorption 8
– detmn. of – in marine and continental air and rain water by high resolution GC 1
– detmn. of volatile – by GC-ECD, comparison of head-space and extraction technique 153
Hydrocarbons, halogenated volatile
– detmn. of – and hydrocarbons, aromatic volatile in soils and sludge by head-space-GC 531
Hydrocarbons, polycyclic aromatic
– anal. of – with proflavin and eosin by fluorimetry 219
– detmn. of – in diesel fuel by capillary GC 651
– detmn. of – in petroleum by TLC and GC/MS 651
– detmn. of – in plant materials by GC 577
– detmn. of – in the vapor phase by laser-induced fluorimetry 219
– ozone degradation of – adsorbed on asbestos 660
– sepn. of – by chromatography, supercritical fluid, on-line two-dimensional method 335
– sepn. of – by HPLC, correlation method for retention indices 660
– sepn. of organic compounds, – from environmental samples, particulates, solvents and extr. methods 660
Hydrochlorothiazide
– detmn. of – in blood plasma by HPLC 593
Hydrogen
– detmn. of active – in sodium alkoxyaluminohydrides by reaction GC 216
– detmn. of bulk and surface oxygen and – in low carbon iron by vacuum fusion 656
– detmn. of – in alloys by isotope dilution 503
– detmn. of – in aluminum and aluminum alloys by gas fusion-thermal conductivity method 421

Hydrogen-3
– detection of – and carbon-14 in chromatography, thin-layer, TV camera system 571
Hydrogen cyanide
– detmn. of – in air using mass amplification on piezoelectric crystals 656
Hydrogen fluoride
– continuous detmn. of – in air 332
Hydrogen isotopes
– anal. of – of water by MS, sample prep. 511
Hydrogen peroxide
– carbon electrodes sputtered with Pd and Au for amperometric detection of – 210
– detection of – and fluorescent compounds, new aryl oxalates for peroxyoxalate chemiluminescence reactions 632
– detmn. of gaseous – in air, cryogenic sampling 359
– detmn. of – in milk, catalytic decomposition to O_2 583
– detmn. of – traces with immobilized enzyme reactors by FIA 640
Hydrogen sulfide
– detmn. of – and carbon sulfide in air by GC, simultaneous sampling in personal sampler 426
– detmn. of – by chemiluminescence with cerium (IV) sulfate 214
Hydroxamic acid
– silica with chemically inoculated – as a new adsorbens 490
Hydroxamic acid resins
– sepn. of molybdenum(VI), tungsten(VI), uranium(VI) and vanadium(V) by their chelates with – 553
Hydroxy acids
– chromatography, ion of monobasic carboxylic acids and – 500
Hydroxybestatin
– detmn. of p— in blood serum by HPLC/fluorimetry 527
Hydroxychloroquine
– detmn. of – and metabolites in blood and blood plasma by HPLC/fluorimetry 348
– detmn. of – and metabolites in blood plasma by HPLC 595
25,26-Hydroxycholesterol-3,26-di-p-bromobenzoates
– sepn. of – by HPLC 418
2-Hydroxyflavones
– sepn. of – by HPLC 229
Hydroxylamine
– detmn. of – alone and in presence of monochloramine by spectrophotometry 334
Hydroxymethoxymandelic acid
– detmn. of tyrosine metabolites, hydroxyphenylacetic acid, p-, hydroxymethoxyphenylacetic acid and – in urine by GC/NICI-MS 235
Hydroxymethoxyphenylacetic acid
– detmn. of tyrosine metabolites, hydroxyphenylacetic acid, p-, – and hydroxymethoxymandelic acid in urine by GC/NICI-MS 235
2-Hydroxy-2-methylbenzaldehyde-semicarbazone
– detmn. of gallium with – by fluorimetry 321
Hydroxyphenylacetic acid, p-
– detmn. of tyrosine metabolites, –, hydroxymethoxyphenylacetic acid and hydroxymethoxymandelic acid in urine by GC/NICI-MS 235
3-Hydroxyphenylurea
– detmn. of – by distillation as ammonia and titration 221
Hydroxyproline
– detmn. of – in dialysate by HPLC 235
– detmn. of – in meat and meat products by HPLC 432
– enzymatic estim. of – in biological tissues 343
8-Hydroxyquinoline
– detmn. of – in plant materials by GC 577
Hydroxytoluene, butylated
– detmn. of – in biological materials by HPLC 349
25-Hydroxyvitamin D
– detmn. of – in blood serum by radiometric method 525
Hypnotics
– detmn. of acetylenic –, ethchlorovynol, ethinamate and meparfynol carbamate by titration of spectrophotometry 516

I

4(5)-Imidazolealdoxime
– detmn. of manganese with – by spectrophotometry 413
Imidazoles
– anal. of mebendazole and related – by low-temperature phosphorescence 433
Imipramine
– electrochem. detection of amitriptyline, nortriptyline, –, carbamazepine, tricyclic drugs at polymer electrodes 434
Immunoassay
– technology, Vol. 1 630
Immunoasssay, thin-layer
– detmn. of opiates in biological tissues by – 348
Immunoblotting
– electrophoresis, gel, gel transfer tank for – 232
Immunoglobulin G
– detmn. of albumin and – by nephelometry, laser, effect of deterioration 438
– detmn. of – by sandwich enzyme immunoassay 345
– detmn. of – in blood serum by flow injection analysis 345
Incineration
– sample and sorbent integrity during combustion source sampling in industrial – 426
Inctedin
– detmn. of fungicides, metacid and – with sulfnitrazo R by spectrophotometry 585
Indicators
– , critical study of color break evaluation 493
– for titrations, non-aqueous with perchloric acid 493
– study of – in isopropanol as solvent 493
– use of acetals and cyclic ethers as – in thermometric titration 493
Indicators, metallochromic
– detmn. of iron(III) with EDTA, – by complexometry, review 214
Indium
– complexation with gallium and – of Picramin M 643
– detmn. of – and indium oxide by voltammetry, cyclic in DC and AC mode 611
– detmn. of – in nickel alloys and zinc ores by spectrophotometry 649
– effect of solvation on reactions between aluminum, gallium, –, zinc, cadmium and azo compounds 212
– influence of strong electrolytes on the complexation of – with bromopyrogallol red 643
– reactive gas extr. to atomic adsorption detmn. of silicon in pure – 502
– sepn. of gallium, – and thallium by extr. with Amberlite or Aliquat 643
– sepn. of tin and – by extr. 412
Indium(III)
– detmn. of – with PAR by amperometric titration 412
Indium oxide
– detmn. of indium and – by voltammetry, cyclic in DC and AC mode 611
Indoleamines
– sepn. of catecholamines, –, metabolites and precursors by rapid HPLC 437
Indolecarboxylic acids
– phosphorescence, room-temperature of some – 219
Indolic compounds
– anal. of eumelanin-related – in urine by HPLC 446
Industrial chemistry
– Ullmann's Encyclopedia of – 563
Industrial solutions
– detmn. of ruthenium and iridium in – by kinetic methods 505
Infant formulas
– detmn. of thiamine in – by LC 227
Information theory
– advantages of – in analytical chemistry, book 483
– representation of water quality by application of – 334
Ink
– anal. of – from ball-point pens by on-line extr. and TLC 654
– discrimination of – by HPTLC 224
Inorganic acids
– single-column chromatography, ion of weak – in glass and galvanic baths 650
Inorganic analysis
– extraction, liquid-liquid in –, status and prospects 490
Inorganic ions
– influence of eluent composition in chromatography, ion of – 405
– sepn. of – by chromatography, thin-layer, on polyethyleneimine cellulose in sulfate media 571
Inorganic materials
– detmn. of iodine in – and organic materials by spectrometry, ICP-AES 607
Inorganic substances
– mass spectrometry, isotope dilution of – and organic substances 661
Inositol triphosphate
– sepn. of phosphates, organic and – by HPLC/enzyme-loaded post-column detector 216
Insecticides
– detmn. of carbamates, – in vegetables by HPLC, optimization of a reaction detector 585
– detmn. of organophosphorus – by flow injection with molecular emission cavity detector 586
– sepn. of organophosphorus – by TLC 339
Instrumental analysis
– preconcentration, electrolytic in – 636
Insulin
– detmn. of – in blood plasma, failure of ultracentrifugation 347
– sepn. of – and derivatives by reversed-phase HPLC 525
Insulins
– detmn. of – in pharmaceutical products by HPLC 434
Iodate
– detmn. of –, iodide and acids by flow injection anal./spectrophotometry 497
Iodide
– detmn. of iodate, – and acids by flow injection anal./spectrophotometry 497
– detmn. of – with coated tubular solid-state electrodes, ion-selective incorporated in flow-injection systems 247
Iodide complexes
– MIBK extraction of – and back-extraction into an aqueous phase 490
Iodine
– detmn. of – in biological fluids by radiochemical NAA 341
– detmn. of – in inorganic materials and organic materials by spectrometry, ICP-AES 607
– detmn. of mercaptans with –, platinum-graphite polarisable electrode system for non-aqueous biamperometric indication 314

Iodine
– electrogeneration of –(I) from methyl iodide in coulometry 207
Iodine(I)
– detmn. of halides using electrogenerated – 497
Iododeoxyuridine
– detmn. of bromovinyldeoxyuridine and – by differential pulse polarography 232
Iodothyronine amino acids
– sepn. of – as N,O-dipivalyl thyrosine ethyl ester by HPLC 235
Ion-exchange
– and solvent extraction, book 482
Ion-exchange resins
– aquametric microdetmn. of hydration of – 568
Ion exchangers
– anal. of zirconium phosphate – by X-ray diffraction spectrometry 633
Ionic product
– anal. of variance in detmn. of equivalence volume and – of water in potentiometric titration 638
Ionization constants
– detmn. of – of sparingly soluble organic bases by electrodes, ion-selective 314
Ions
– IR multiphoton and collision-induced dissociation studies of some gaseous alkylamine ions, – by mass spectrometry, FT 202
Ion solvation
– , book 565
Iridium
– detmn. of cobalt, nickel and – with tetrahydrofurfurylxanthate by spectrophotometry after coprecipitation with naphthalene 215
– detmn. of – ions by potential-controlled coulometry 320
– detmn. of osmium and – in ores by kinetic methods 510
– detmn. of ruthenium and – in industrial solutions by kinetic methods 505
– detmn. of – traces in special purity tin by laser atomic ionization 419
– poly- and monocrystalline antimony, – and palladium as materials for electrodes, pH-sensing 572
Iridium(III)
– detmn. of osmium(VIII) and – with acenaphthenequinone monothiosemicarbazone 649
Iron
– detmn. of aluminum, copper, – and manganese as 8-quinolinol complexes by HPLC 317
– detmn. of – at ppm levels by indirect voltammetry 414
– detmn. of bulk and surface oxygen and hydrogen in low carbon – by vacuum fusion 656
– detmn. of – by extr.-spectrophotometry as phenanthroline-picrate complex 214
– detmn. of –, cobalt, copper, zinc and lead in nickel and nickel sulfate by ICP-AES and NAA 502
– detmn. of copper in pure – by X-ray fluorescence spectrometry 419
– detmn. of copper, zinc and – in parotid saliva by FIA-AAS 589
– detmn. of copper, zinc and – in whole blood by AAS 521
– detmn. of – in brass with thioglycolic acid by spectrophotometry 502
– detmn. of – in plant materials with bromopyridylazo-dimethylaminophenol by spectrophotometry 196
– detmn. of molybdenum in – and steel by stripping voltammetry 322
– detmn. of soluble – in reactor coolant by differential-pulse stripping voltammetry 647
– fractionation of – and phosphorus in surface water using d.c. ICP-AES 659
Iron-55
– detmn. of – in nuclear corrosion products by spectrophotometry and scintillation counting 425
Iron(II)
– detmn. of – and iron(III) in silicates by spectrophotometry 510
– detmn. of –, cobalt(II) and manganese(II) by extr. and voltammetry of mixed-ligand complexes 215
– detmn. of – in ferrochrom by coulometry 422
– detmn. of – with 1,10-phenantholine and tetraiodofluorescein by spectrophotometry 413
Iron(III)
– detmn. of – and nickel in steel and alloys 319
– detmn. of – by photometric FIA 215
– detmn. of – in sediments with salicylaldehyde by spectrophotometry 646
– detmn. of iron(II) and – in silicates by spectrophotometry 510
– detmn. of – with EDTA, indicators, metallochromic by complexometry, review 214
– detmn. of – with titanium(III) by coulometric titration, stabilisation of Ti(III) with glycerol 208
– sepn. of DCTA chelates of bismuth(III), – and copper(II) by reversed-phase paired-ion chromatography 318
– solvent extr. of – from trichloroacetate solution 319
Iron(III) complexes
– study of – with tiron 646
Ironorgano compounds
– Gmelin handbook, –, ferrocenes 197
– Gmelin handbook, –, polynuclear compounds 401
Isoascorbic acid
– detmn. of ascorbic acid, dehydroascorbic acid and – in blood by HPLC 473
Isoelectric focusing
– , adaption of HP electrophoresis equipment 207
– prep. of rehydratable polyacrylamide gels for ultrathin-layer – 636
– sepn. of ampholytes by –, the plateau phenomenon 207
Isoflavones
– anal. of – in Puerariae radix by HPLC with amperometric detection 229
Isomers
– sepn. of – by chromatography, thin-layer 571
– sepn. of – by chromatography, thin-layer and chromatography, HPLC with cyclodextrins as selective reagents 311
Isopeptides
– sepn. of peptides and – by HPLC 236
Isopropanol
– study of indicators in – as solvent 493
Isosorbide-5-mononitrate
– detmn. of – with perfluorinated anhydrides by GLC 526
Isothiazolones
– anal. of microbiocidal – by chromatography, flash 293
Isotope analysis
– interaction of guanidine hydrogen halides for oxygen liberation in – 213
Isotopic measurements
– on boron in boric acid and boron carbide 411
Isotopic spectral analysis
– anal. of inorganic gases by –, review 511

J

Josamycin
– detmn. of – in blood plasma, erythrocytes and leucocytes by HPLC, alternating clean-up columns 527

K

Kalman filter
– applied to setpoint control in continuous titrations 210
– for the evaluation of the current-time function in d.c. polarography 639
– the – in analytical chemistry 639
Kanamycin
– detmn. of –, gentamicin, amikacin, aminoglycosides by d.c. polarography 518
Karl Fischer titration
– detmn. of aldehydes and ketones by – 492
Ketones
– detmn. of aldehydes and – by Karl Fischer titration 492
– detmn. of aldehydes and – in environmental materials by LC/MS, 2,4-dinitrophenylhydrazine derivatives 511
Ketoprofen
– detmn. of – in blood serum and urine by HPLC, dual column assay 243
– enantiospecific HPLC anal. of 2-phenylpropionic acid, – and fenoprofen in biological fluids 243
Kinetic analysis
– application of electrodes, ion-selective in reaction kinetics and – 208
Kjeldahl method
– detmn. of nitrogen in cheese, – with copper catalyst 584

L

Lacquer films
– investigation of pigmented – by spectrometry, photoacoustic 676
Lactate
– detmn. of – in blood plasma by enzymatic spectrophotometry 590
– detmn. of pyruvate, – and glucose in cerebrospinal fluid by enzymatic spectrophotometry 522
– enzyme electrode for L– with a chemically-amplified response 217
Lactate dehydrogenase
– detmn. of pyruvate with – immobilized on a pyrolytic carbon fibre microelectrode 522
Lactate dehydrogenase isoenzyme
– anal. of – in blood serum by HPLC 242
Lactic acid
– detmn. of glucose, creatinine, free cholesterol and – using an integrated FIA microconduit 588
Lactose
– detmn. of fats, protein and – in ewe milk by automated IR spectrometry 583
Lanthanides
– adsorption of – with crown ethers adsorbents 212
– detmn. of – in rocks and minerals and HPLC 330
– detmn. of – in uranium by ICP-AES 650
– detmn. of –, La, Ce, Nd, in environmental materials by energy dispersive X-ray fluorescence, sample preparation 105
– detmn. of the total – in phosphate rocks, rocks 479
– detmn. of traces yttrium and some heavy – by adsorptive stripping voltammetry 642
– detmn. of yttrium and – by spectroscopy, graphite-furnace coherent forward scattering 396
– selective enrichment of – by cocrystallization formation of double sulfates by alkali and alkaline earth metals 411
– sepn. of – by TLC in ammonium nitrate solutions 642
Lanthanum
– indirect flame AAS of cerium and – by flow injection anal. 317

Laser desorption
– /mass spectrometry, FT for the study of biomolecules 201
– /mass spectrometry, FT for the study of biomolecules, reproducibility and extent of fragmentation of laser-desorbed ions 201
– surface analysis by – of neutral molecules by mass spectrometry, FT 201
Laser ionization
– /mass spectrometry, FT to metal ions and their clusters in the gas phase 202
Latex
– sizing synthetic mixtures of – and various colloidal suspensions by photon correlation spectrometry 575
Leaching solutions
– detmn. of sulfur anions in – of slags by ion-exchange chromatography 647
Lead
– cast iron reference material, certification for antimony, arsenic, bismuth and – 163
– detmn. of – and bismuth in ores by complexometry, extr. with fatty acids 331
– detmn. of – and bromine in gasoline by X-ray fluorescence 326
– detmn. of – and cadmium in small amounts of biological materials by EAAS 521
– detmn. of – and cadmium in soils by AAS, direct pipetting of slurries on electrothermal atomizer 337
– detmn. of – and cadmium in zinc by voltammetry, inverse 501
– detmn. of – by enzymatic method using alkaline phosphatase 317
– detmn. of – by hydride generation AAS, oxidising agents 495
– detmn. of – by radioanalytical method using a chelating filter 644
– detmn. of copper, –, cadmium and zinc in soil lime by polarography 578
– detmn. of copper, –, thallium, cadmium and zinc traces in aluminum by anodic stripping voltammetry 648
– detmn. of – in gasoline by flow-injection spectrometry, atomic absorption 573
– detmn. of – in graphite furnace AAS using low-temperature atomisation 644
– detmn. of – in nickel alloys by AAS with introduction of solid samples 322
– detmn. of – in spinach by AAS, slurry technique 225
– detmn. of – in urine by electrothermal AAS with STPF and matrix modification 341
– detmn. of iron, cobalt, copper, zinc and – in nickel and nickel sulfate by ICP-AES and NAA 502
– detmn. of tellurium and – by spectrometry, candoluminescence 496
– detmn. of tin and – by differential pulse polarography 212
– detmn. of total – and trimethyl lead in biological materials by HPLC and AAS 521
– detmn. of – with diazacrown ether dyes 644
– detmn. of – with electrodes, ion-selective 572
– detmn. of – with red-violet, cationic by solvent photometry 317
– sepn. of – and copper by chromatography, ion-exchange on chelating resins 213
– sepn. of – by cation exchange chromatography, mixed solvents 213
Lead(II)
– -selective chalcogenide glass electrode 317
Lead-acid cells
– detmn. of antimony in – by titration or AAS 425
Lead-antimony alloys
– detmn. of trace elements in –, multielement preconcentration 157
Lead chloride
– detmn. of trace elements in – and lead sulfate by AAS, extraction-concentration 278
Lead dioxide
– adsorption of metal nitrates on hydrous – 424
Leadorgano compounds
– occurence of monoalkyllead species during the speciation of – in air 655
Lead sulfate
– detmn. of trace elements in lead chloride and – by AAS, extraction-concentration 278
Least squares analysis
– accuracy of evaluating conc. of light-absorbing substances by – and the method of moments 209
Lectins
– , biology, biochemistry, clinical biochemistry, Vol. 4, book 199
Lenperone
– detmn. of – in blood plasma by HPLC 245
Leucocytes
– detmn. of josamycin in blood plasma, erythrocytes and – by HPLC, alternating clean-up columns 527
Leupeptin
– detmn. of – in blood serum and muscle by HPLC, fluorescence derivatization with benzoin 246
Levodopa
– detmn. of – and 3-O-methyldopa in blood plasma by HPLC/coulometry 444
Lewisite
– detmn. of – vapor in air by molybdenum-blue method 427
Library search
– ident. of polymers by – of pyrolysis mass spectra and pattern recognition 508
Lidocaine
– detmn. of – and metabolites in biological materials by HPLC 442
– detmn. of – with membrane electrodes 515
Life science
– mass spectrometry in the health and –, book 198
Ligands
– detmn. of – in Phenyl-Sepharose CL-48, gels, three methods 652
Ligands, multiatomic
– indicator photometric titration of monodentate – with metal ions 409
Light-absorbing substances
– accuracy of evaluating conc. of – by least squares analysis and the method of moments 209
Light emission instability
– suppress. of – in case of high-current dc arc excitation in biological materials 561
Lignin
– anal. of – degradation products in biomass hydrolyzates using GC-MS and HPLC 461
Lignite
– detmn. of germanium in – fly ashes by flameless AAS 506
Lime
– detmn. of – in slags by automatic anal. 424
Lime oils
– anal. of – by GC/MS, detection of adulteration 582
Limit of detection
– indirect estim. of theoretical – in voltammetry, stripping from non-reproducibility of residual current 489
Linoleic acid hydroperoxides
– sepn. of – in HPLC 500
Linolenic acid hydroperoxide
– ident. of – in HPLC 500
Lipid oxidation products
– detmn. of – in hepatic lipids by GC/MS 237
Lipids
– assay of phosphorus in – of brain tissue by modified Bartlett assay 524
– detmn. of – by Chromarod TLC-FID 346
– detmn. of – in bile on chromarods 237
– detmn. of – in meat, comparison of ether and chloroform for soxhlet extr. of fat 226
– detmn. of – in vesicles by HPLC 592
– detmn. of lipid oxidation products in hepatic – by GC/MS 237
– direct fatty acid profiling of complex – in intact algae by FAB-MS 524
– fatty acid composition of – of plant leaves 336
– sepn. of – by chromatography, thin-layer, with gradient saturation 439
Lipopolysaccharides
– sepn. of heptose nucleotides in – by borate LC 441
Lipoproteins, HDL
– detmn. of –, comparison of gradient gel electrophoresis and zonal ultrazentrifugation 592
Liquids
– detmn. of the optical constants of – 651
Liquid scintillation
– detmn. of pyrethroids by HPLC with – detector 339
Lithium
– detmn. of – in blood serum, comparison of emission flame spectrometry and spectrophotometry 588
– detmn. of – in blood serum using new ion-selective liquid membrane electrode 520
– detmn. of – in blood serum with electrodes, ion-selective, Li- or Ba-electrode 314
– detmn. of – in organo-aqueous solutions by a. c. polarography 210
– , electrodes, ion-selective based on non-cyclic polyether diamide carriers 572
Liver
– assay of mephenytoin metabolism in human – microsomes by HPLC 244
– sepn. of metallothioneins in – by HPLC/AAS 447
LIX 64
– sepn. of uranium, americium and europium by extr. with – 317
Lorapride
– detmn. of – in biological fluids by HPLC 444
Lormetazepam
– detmn. of – in blood plasma by GC/ECD 594
Loxoprofen
– detmn. of enantiomers of – sodium and metabolites in urine by LC 526
Lubricants
– charact. of oils, – and petroleum products by spectra, IR, book 198
Lubricating oils
– detmn. of molybdenum in – by AAS with use of emulsions 220
Luciferase
– assays with immobilized firefly luciferase, – based on flow injection analysis 436
– detmn. of adenosine triphosphate with immobilized – 529
– sepn. of bacterial – from oxidoreductases by affinity chromatography 529
Luminescence, room-temperature
– anal. data for cyclodextrin induced solid-surface – of selected compounds 568
– anal. of mixtures by –, with solid substrate 632
Lutetium
– detmn. of samarium, europium, ytterbium and – in silicate rocks by AES 509
Lysolecithin
– detmn. of bile acids and – in gastric juice by HPLC 347
Lysophosphatidylcholine
– detmn. of – in biological materials by LC, TLC and radiometric method 440

M

Magnesium
– detmn. of calcium and – in water by FIA 659
– detmn. of – in alumina ceramics, ceramics by AAS 323
– detmn. of ultratrace calcium and – in brines by ICP-OES 324
– detmn. of zinc, –, copper and nickel in water by kinetic spectrophotometry, substitution of calmagite ligand by EDTA 512
Maize
– anal. of moniliformin in – by ion-pair extr. and HPLC 581
Malachite green
– detection of sulfite in meat with –, selectivity of the test 226
– detmn. of tetraphenylborate with – by spectrophotometry 642
Malondialdehyde
– detmn. of – in biological materials by HPLC 233
Mandelic acid
– detmn. of homotropine hydrobromide and – in eye drops by HPLC 518
Manganese
– detmn. of aluminum, copper, iron and – as 8-quinolinol complexes by HPLC 317
– detmn. of – and sodium in geological materials by NAA 510
– detmn. of – by radiochem. displacement of zinc from Zn-PAN complex 414
– detmn. of copper and – by spectrometry, atomic absorption, absolute mass detmn. with discrete nebulisation 305
– detmn. of EDTA, DCTA and DTPA by catalytic titration with – 492
– detmn. of – in biological materials by AAS 521
– detmn. of – with 4(5)-imidazolealdoxime by spectrophotometry 413
– kinetic detmn. of traces of – in different materials 414
Manganese(II)
– detmn. of iron(II), cobalt(II) and – by extr. and voltammetry of mixed-ligand complexes 215
– sepn. of – with 2-propionyl-1-naphthol oxime by extr. into $CHCl_3$ 414
Manganese(III)
– strongly oxidizing agents in flow injection analysis, – 637
Mannitols
– sepn. of partially methylated – from oligosaccharides by HPLC 346
Marine organisms
– cluster analysis to study heavy metals distribution in – 477
– detmn. of total antimony in – and water by stibine generation AAS 659
Marine sediments
– anal. of barium in – by NAA 512
– detmn. of trace metals in – and biological tissues using STPF-AAS 330
Masking methods
– in analytical chemistry, review 492
Mass spectrometer
– detmn. of traces of heavy metals in sewage sludges, soils and related environmental materials with a thermal ionization quadrupol – 24
Mass spectrometer, laser
– investigation of distribution of impurities in polycrystalline samples of metals, high purity on a LAMMA-1000 – 404
Mass spectrometry
– anal. of amino acids by SI – in glycerol solution 417
– anal. of drugs by –, LD/FT/ICR 514
– anal. of fluoroalkanesulfonates by FAB and tandem – 327
Mass spectrometry
– anal. of mixtures of hydrocarbons and sulfur-organo compounds by EI and pulsed positive negative ion CI chromatography, gas/– 206
– anal. of petroleum residues by desorption-chemical ionization – 506
– anal. of surfactants by –, soft ionization techniques 222
– chromatography, supercritical fluid/– for thermally labile compounds 634
– comparison of mass resolution criteria in – 201
– detmn. of chemical classes of toxic organic compounds by – 632
– exact FAB and EI/FAB – with peptides using a direct FAB probe 404
– Fourier transform time-of-flight – 632
– improved sensitivity for adenosine triphosphate, disodium in secondary ion – 626
– in the health and life science, book 198
– neutralization agents for neutralization-reionization – 568
– NICI – with different reagent gases 632
– of difficult-to-volatile thermally instable substances 200
– of mixtures of gases, inorganic, review 656
– practical organic –, book 629
– solvent selection for thermospray chromatography, liquid/– 635
– , temporal behavior of secondary ion emission from liquid samples 632
– , triple-stage-quadrupol system 568
– with metal ions as ionization source 632
Mass spectrometry, FT
– clipped representations of ion-cyclotron resonance spectra in – 201
– collisional activation by –, target gas excitation 202
– developments in analytical – 201
– fundamental aspects and applications of ion-cyclotron resonance – 201
– IR multiphoton and collision-induced dissociation studies of some gaseous alkylamine ions, ions by – 202
– laser desorption/– for the study of biomolecules 201
– laser desorption/– for the study of biomolecules, reproducibility and extent of fragmentation of laser-desorbed ions 201
– laser ionization/– to metal ions and their clusters in the gas phase 202
– pulsed-valve chemical ionization for chromatography, gas/– 201
– surface analysis by laser desorption of neutral molecules by – 201
Mass spectrometry, ICP
– , ionization suppression by salts 568
Mass spectrometry, isotope dilution
– of inorganic substances and organic substances 661
Mass spectrometry, laser
– quant. elemental anal. of biological fluids using – 520
Materials analysis
– progress in –, book 565
Matrix correction
– phys. – in X-ray fluorescence analysis of silicate glass 667
– reciprocal evaluation of – in spectrometry, X-ray 686
Meat
– detection of diethylstilbestrol residues in – by HPLC/radioimmunoassay 582
– detection of sulfite in – with malachite green, selectivity of the test 226
– detmn. of chloramphenicol in – by HPLC 583
– detmn. of hydroxyproline in – and meat products by HPLC 432
– detmn. of lipids in –, comparison of ether and chloroform for soxhlet extr. of fat 226
Meat
– detmn. of nitrate and nitrite in – by flow-injection and AAS 432
– detmn. of nitrate and nitrite in cured – by HPLC 432
– detmn. of sulfamethazine in swine – by HPLC 227
– detmn. of tetracyclines in – by HPLC 582
– detmn. of volatile nitrosamines in – by GC after simult. distillation-extr. 583
– ident. of soya proteins in – by pyrolysis/HRGC 227
Meat products
– detmn. of cadmium in – by extr.-photometry 582
– detmn. of hydroxyproline in meat and – by HPLC 432
Mebendazole
– anal. of – and related imidazoles by low-temperature phosphorescence 433
– detmn. of – in pharmaceutical products by spectrophotometry 515
Mebeverine hydrochloride
– detmn. of – in pharmaceutical products by HPTLC 516
Medroxyprogesterone
– detmn. of – acetate in blood serum by GC/MS 239
Melphalan
– detmn. of – using differential pulse voltammetry 434
Membrane electrodes
– cationic carrier for nitrate-selective liquid – 572
– detmn. of lidocaine with – 515
– development of biocatalytic – 519
– salicylate response of ferrimycobactin –, siderophores 572
Membrane photosensors
– acid/base titrations using photosensors and – 638
Menthol glucuronide
– detmn. of – by HPLC after pre-column labelling with 4-bromo-methyl-7-methoxy-coumarin 233
Meparfynol carbamate
– detmn. of acetylenic hypnotics, ethchlorovynol, ethinamate and – by titration of spectrophotometry 516
Meperidine
– detmn. of chlorpromazine, amitriptyline, propantheline and – by electrodes, ion-selective, prep. of liquid membranes 517
Mephenytoin
– assay of – metabolism in human liver microsomes by HPLC 244
Mercaptans
– detmn. of – with iodine, platinum-graphite polarisable electrode system for non-aqueous biamperometric indication 314
2-Mercaptobenzothiazole
– sepn. of gold(III) with – 411
– sepn. of silver(I) with – by extr. 410
Mercury
– detmn. of – and mercuryorgano compounds by HPLC/ICP spectrometry 641
– detmn. of – by enzymatic fluorimetry 495
– detmn. of – by liquid-liquid extr., photometry and AAS 495
– detmn. of – in air by AAS after collection on $KMnO_4$-coated glass beads 654
– detmn. of – in hair by NAA 589
– detmn. of – in sea water by anodic stripping voltammetry 513
– detmn. of – in waste water by NAA and AAS 659
– detmn. of – traces in gallium by anodic stripping voltammetry 419
– detmn. of – with acetylacetothioacetanilide by gravimetry as HgS 316

Mercury
– detmn. of zinc, cadmium and – by nitrogen after-glow emission spectrometry 316
– microdetmn. of – with ion-selective electrodes 641
– sorption of gold, silver and – on cellulose 618
Mercury(II)
– detmn. of – in water with piezoelectric crystals 642
– detmn. of – with ethyleneglycolbis(ethylthio-acetic acid) by amperometric titration 316
– photochromism of silver and – dithizonates 485
– simult. catalytic titration of binary mixtures of – with copper(II) or cadmium 641
Mercury compounds
– detmn. of organic and inorganic – by HPLC as alkyldithiocarbamates 267
Mercuryorgano compounds
– detmn. of – and arsenicorgano compounds in water and air by GC/AAS 369
– detmn. of mercury and – by HPLC/ICP spectrometry 641
Metacid
– detmn. of fungicides, – and inctedin with sulfnitrazo R by spectrophotometry 585
Metal chelates
– enrichment of elements from non-aqueous solutions of – 409
– sepn. of – of Schiff bases on fused-silica WCOT columns by GC 206
Metal complexes
– adsorption of – with ferron on Zeo-Karb-226 for AAS 168
– encoded structural data to predict the chromatography, liquid behaviour of tetradentate – 569
– reversible electrode processes in voltammetry, stripping of – 489
Metal-EDTA complexes
– detmn. of – in feces by TLC 340
Metal fluorides
– detmn. of fluorine in binary – by ion-selective electrode 423
Metal ions
– adsorption of – on carbon, activated at pH 1–13 490
– anal. of – via chromatographic derivatization with dithiocarbamates by HPLC 116
– characteristics of ethylene diamine in chromatography, ion of – 405
– complex formation of biphenyl biscatecholylazo derivatives with – 409
– detmn. of acids, bases, – and redox species by peak width measurements in flow injection analysis 637
– detmn. of – using electrodes, ion-selective, choice of metal-buffer system composition 208
– detmn. (simult.) of – in river sediments by voltammetry 658
– enrichment of – using aminopolycarboxylato ligands bound to cellulose 574
– indicator photometric titration of monodentate ligands, multiatomic with – 409
– laser ionization/mass spectrometry, FT to – and their clusters in the gas phase 202
– mass spectrometry with – as ionization source 632
– potentiometric detector with a copper metal electrode for detmn. of – 208
– selective sepn. of – by use of chelate-forming resins by modification of anion-exchangers 404
Metall chelates
– sepn. of – of 2,2,7-trimethyloctan-3,5-dione by GC and HPLC 326
Metal/ligand complexes
– MINIGLASS, an interactive program for stability constants of – 639
Metallothioneins
– sepn. of – in liver by HPLC/AAS 447
Metal nitrates
– adsorption of – on hydrous lead dioxide 424
– detmn. of nitrate content in – by thermoanal. methods 323
Metalorgano compounds
– sepn. of – by LC on bonded-phase columns 216
Metalorgano compounds, volatile
– detmn. of – by GC/ICP 416
Metal-polymer bonds
– anal. of – 281
Metals
– conc. of trace – by chromatography, extraction, with Eriochrom Black T 307
– detmn. of – in blood by flame atomic fluorescence and atomic emission spectrometry 340
– detmn. of – in milk by voltammetry, mineralisation methods 583
– detmn. of – in plastics by electron microprobe microanalyzer 224
– detmn. of – in salt solutions by spectrometry, hanging mercury-drop electrodeposition technique 324
– detmn. of – in sodium borohydride by spectrometry, complexes with diethyldithio-carbamate and oxine 323
– detmn. of – in urine by direct injection of sample, HPLC and electrochem. or photometric detection 588
– detmn. of nitrogen in – and alloys by biamperometric titration 422
– detmn. of nitrogen in – and semiconductors by NAA 501
– detmn. of organic bound – in aqueous extracts of soya and wheat flour by gel-/ion-exchange-chromatography 121
– effect of platinum on the atomization of different – in spectrometry, atomic absorption, electrothermal 567
– metrological support for anal. of natural water for – 658
– sepn. of – as carbonyl complexes by HPLC 405
– sepn. of – as dimethylsulfoxide complexes by chromatography, paper 311
– sepn. of – by chromatography, ion, effect of complexing agents 307
– sepn. of – by chromatography, ion-exchange on PAN-sorbed tin(IV) silicate columns 195
Metals, high purity
– investigation of distribution of impurities in polycrystalline samples of – on a LAMMA-1000 mass spectrometer, laser 404
Metals, nonferrous
– detmn. of non-metals in –, modern methods, book 630
Metanephrine
– detmn. of 3-methoxytyramine, normetanephrine and – in cerebrospinal fluid by GC/MS 245
Methadone
– assay of – in blood plasma by capillary GC with photoionization detection 447
Methamidophos
– detmn. of acephate, – and terbufos in tobacco by GC 394
Methamphetamine
– detmn. of – in blood by UV spectro-photometry, elimination of interfering compounds 447
Methane
– Clark oxygen electrode, influence of acetylene, ethylene and – 314
Methanol
– detmn. of – in gasoline by ^{1}H NMR spectrometry 326
Methionine sulfoxide
– detmn. of – in proteins and foods by amino acid analyzer 226
Methotrexate
– detmn. of – in body fluids by HPLC with electrochem. detection 445
3-Methoxytyramine
– detmn. of –, normetanephrine and metanephrine in cerebrospinal fluid by GC/MS 245
Methylamine electrode
– detmn. of 1-naphthyl-N-methylcarbamate with – 586
Methylamines
– detmn. of – in biological materials using microelectrodes 234
Methyl borate
– detmn. of boron in water by flame AES as – 427
Methyl bromide
– detmn. of – in foods by headspace GC 228
Methyl t-butyl ether
– detmn. of –, benzene, toluene and ethanol in gasoline by LC 326
Methyldopa
– detmn. of – and norepinephrine by spectro-photometry after reaction with aromatic aldehydes 517
– detmn. of levodopa and 3-O-– in blood plasma by HPLC/coulometry 444
Methylhistamine
– detmn. of histamine and N^{τ}-– in tissues, animal by HPLC with electrochem. detection 234
Methylhistidines
– detmn. of histidine and – in biological materials by HPLC 236
Methylmercury
– detmn. of – and ethylmercury in blood and tissues by capillary GC with ECD 447
– detmn. of – in biological materials by headspace GC 340
Methyl methacrylate
– assay of – in blood by headspace capillary GC 349
Methyl nicotinate
– detmn. of – in pharmaceutical creams by HPTLC 232
Methyl nitrite
– detmn. of the purity of – 574
Methylphenanthrene
– detmn. of phenanthrene and – in crude oils by multidimensional capillary GC 221
Metoprolol
– enantiomer sepn. of – analogues and metabolites in urine by capillary GC after derivatization with phosgene 526
Mexacarbate
– detmn. of – and 5 derivatives by HPLC 586
Mexiletine
– detmn. of – in blood plasma by HPLC 444
Micellar effects
– on molecular diffusion in chromatography, liquid 633
Micellar solutions
– sepn. of phenylthiohydantoin amino acids by chromatography, electrokinetic with – 342
Micellar systems
– pH-measurements in – 490
Michler's ketone
– phosphorescence charact. of acetophenone, benzophenone, p-aminobenzophenone and – 221
Michler's thioketone
– detmn. of gold in ores with –, selective extr. with diantipyrylmethane 331
Microbial sensors
– comparison of – based on amperometric and potentiometric electrodes 587
Microelectrodes
– detmn. of methylamines in biological materials using – 234
– voltammetry at –, construction of single and arrays 208

Microelectrodes, carbon fiber
– mercury-coated –, prep. and properties 489
Microelectrodes, ion-selective
– in vivo measurement with potassium –, new bis (crown ether) 340
Milk
– anal. of proteins in bovine – by LC 583
– detmn. of aflatoxin M_1 in dry – by reversed-phase HPLC 584
– detmn. of caffeine in human breast – and blood plasma by GLC 595
– detmn. of deoxynivalenol in – by GC 583
– detmn. of fats, protein and lactose in ewe – by automated IR spectrometry 583
– detmn. of hydrogen peroxide in –, catalytic decomposition to O_2 583
– detmn. of metals in – by voltammetry, mineralisation methods 583
– detmn. of penicillin G, penicillin V and ampicillin in – by HPLC 583
– detmn. of vitamin B_6 in human – and blood plasma by HPLC 238
Milk fat
– detmn. of free fatty acids and triglycerides in – by GC, derivatization catalyst 431
Mineral oils
– detmn. of hydrocarbons in – and coal oils by chromatography, chromarod 650
Minerals
– anal. of mixtures of – by spectrometry, X-ray 509
– detmn. of cobalt in steel, alloys and – by spectrophotometric titration 502
– detmn. of lanthanides in rocks and – and HPLC 330
– detmn. of tin in rocks and – by chelate extr. AAS 509
Mitomycin
– assay of – in biological fluids by HPLC 527
Moisture
– detmn. of – in amines by Karl Fischer coulometric titration 499
Molecular diffusion
– micellar effects on – in chromatography, liquid 633
Molecular weight
– detmn. of – of proteins by electrophoresis, gel, standard curves 523
Molybdenum
– detmn. of – and vanadium in sea water by AAS, metal chelate coprecipitation 659
– detmn. of – as thiocyanate-2-acetylpyridinethiosemicarbazone complex by extr.-spectrophotometry 319
– detmn. of – by AAS, charact. of interfering effects 211
– detmn. of – by AAS, mathematical experiment design 496
– detmn. of – by catalytic methods with improved sensitivity 319
– detmn. of – by polarography in presence of W, P and other interfering elements 496
– detmn. of cadmium and – in soils by AAS or ICP-spectrometry 337
– detmn. of – in iron and steel by stripping voltammetry 322
– detmn. of – in lubricating oils by AAS with use of emulsions 220
– detmn. of – in plant materials by catalytic method, I^-/H_2O_2 reaction 576
– detmn. of – in sea water, accuracy of combined ion exchange-photometric method 514
– extr. of –, tungsten and technetium with polyurethane foam 637
Molybdenum(VI)
– detmn. of – in ores by chronovoltammetry with linearly changed potential 332
– detmn. of vanadium(V) and – in alloys and steel with thymolphthalexon by spectrophotometry 322
Molybdenum(VI)
– sepn. of rhenium(VII), – and vanadium(V) by chromatography, thin-layer, on Al_2O_3 407
– sepn. of –, tungsten(VI), uranium(VI) and vanadium(V) by their chelates with hydroxamic acid resins 553
Molybdenum blue
– study of the coloured substances in – by HPLC 646
Molybdenum concentrates
– detmn. of rhenium in – with tetrazolium salts by spectrophotometry 504
Molybdoniobium heteropoly acid
– detmn. of niobium by multiplication reactions between – and di- or tri-methylthionines 318
Monensin
– detmn. of –, narasin and salinomycin in feeds by HPLC 337
Monensin sodium
– detmn. of – in beef liver by LC, as fluorescent derivative 227
Moniliformin
– anal. of – in maize by ion-pair extr. and HPLC 581
Monoalkylamines
– anal. of N-oligooxyethylene – and dialkylamines by GC/MS 652
Monoalkyllead
– occurence of – species during the speciation of leadorgano compounds in air 655
Monoamine oxidase
– detmn. of – in brain, comparison of ion exchangers 242
– detmn. of – with different substrates by HPLC 242
Mono-chloramine
– detmn. of hydroxylamine alone and in presence of – by spectrophotometry 334
Monochloropyrene
– detmn. of residual pyrene and – in water by derivative spectrofluorimetry 660
Monosaccharides
– sepn. of – as partially methylated alditol acetates by capillary GC/MS 346
Morin
– sepn. of protactinium with – by extr. 411
Morphine
– detmn. of codeine and – in urine by capillary GC/MS 348
Morpholine
– detmn. of sulfur dioxide in air, – as absorbing reagent 656
Morpholine-4-carbodihioate
– detmn. of arsenic, antimony and palladium using – as amperometric titrant 495
Motor oils
– detmn. of ethylene glycol in antifreeze solutions and – by HPLC as iodate 224
Multicomponent analysis
– metrological charact. of multiparameter analysis for – 424
– selectivity in – 639
– validitation of derivatized – by chromatography, gas of sugars 570
Multicompoaent mixtures
– computer-processed ident. of – of organic compounds from chromatography, gas data 206
– the control of additivity for – by correlation analysis 639
Multielement analysis
– by spectrometry, atomic absorption, graphite probe electrothermal atomisation 305
– of airborne dust of the city of Ulm, comparison with other regions 41
– wind directed sampling and – of atmosph. aerosols by ICP-AES/GF-AAS, air pollution 50
Multiparameter analysis
– metrological charact. of – for multicomponent analysis 424
Multivitamin preparations
– detmn. of nicotinamide in – by TLC and densitometry 518
Munitions
– detmn. of – in water, field extr. with resins 647
Muramic acid
– detmn. of – and amino sugars by capillary GC/MS, acetylation methods 345
Muscle
– detmn. of leupeptin in blood serum and – by HPLC, fluorescence derivatization with benzoin 246
Mustard
– detmn. of allyl isothiocyanate, 3-butene nitrile and acetic acid in – by GC 581
Mustard gas
– detmn. of thiodiglycol in urine by GC/MS, metabolite of – 448
Mustard seed
– detmn. of total glycosides in – by turbidimetry 577
Mutagenic activity
– anal. of toxicological substances by chromatography, liquid, recovery of – on various adsorbents 595

N

Nafidimide
– assay for benzisoquinolinedione, – in blood plasma and urine by reversed-phase HPLC 246
– detmn. of benzisoquinolinedione, – in biological fluids by HPLC 246
Nafronyl
– ion-selective membrane electrodes 230
Nails
– detmn. of nickel in human – by differential-pulse voltammetry 521
Nail varnish
– detmn. of formaldehyde in – and HPLC 328
Naphtha
– detection of sulfur compounds in – and gasoline with gas electrode detector 573
Naphthalene
– detmn. of cobalt, nickel and iridium with tetrahydrofurfurylxanthate by spectrophotometry after coprecipitation with – 215
Naphthalenes
– detmn. of – in petroleum fractions by second-derivative UV spectrometry 650
1-Naphthalenesulfonic acid
– detmn. of 2-naphthalenesulfonic acid in – by HPLC 418
2-Naphthalenesulfonic acid
– detmn. of – in 1-naphthalenesulfonic acid by HPLC 418
β-Naphthalenesulfonic acid/formaldehyde condensates
– charact. of neutralized – by HPLC 223
2-Naphthalenesulfonyl chloride
– derivatization of amines, sec. with – for HPLC anal. of spectinomycin 231
1-Naphthol
– detmn. of carbaryl, – and 2-naphthol by HPLC as 4-aminoantipyrine derivatives 585
2-Naphthol
– detmn. of carbaryl, 1-naphthol and – by HPLC as 4-aminoantipyrine derivatives 585
1-Naphthyl-N-methylcarbamate
– detmn. of – with methylamine electrode 586
1-Naphthylmethyltriphenylphosphonium
– detmn. of chromium(VI) in steel by extr. with – cation and spectrophotometry 322
Narasin
– detmn. of monensin, – and salinomycin in feeds by HPLC 337
Naringinase
– detmn. of rhamnosidase activity in – by spectrophotometry 243

Nephelometry, laser
– detmn. of albumin and immunoglobulin G by –, effect of deterioration 438
Neuroleptics
– GC behavior and pharmacological activity of – 231
Neutrophil elastase
– detmn. of – by solid-phase radioimmunoassay 241
Nickel
– anal. of cobalt in high purity – for reactor neutron dosimetry 502
– detmn. of – and cobalt in biological materials, fish by voltammetry 514
– detmn. of – and vanadium in petroleum by polarography 506
– detmn. of cadmium, chromium, copper, – and zinc in city waste incineration ash by ICP-AES 430
– detmn. of cobalt, – and iridium with tetrahydrofurfurylxanthate by spectrophotometry after coprecipitation with naphthalene 215
– detmn. of cobalt and – with 1,5-bis(di-2-pyridylmethylene)thiocarbonohydrazide by spectrophotometry 319
– detmn. of copper and – (simult.) by liquid-liquid extr. and GLC 497
– detmn. of –, copper and zinc as tetraphenylporphine chelates by HPLC 216
– detmn. of –, copper, zinc and cadmium by X-ray fluorescence spectrometry, preconc. on ion-exchange membranes 498
– detmn. of – in alloys by potentiometric titration with dimethylglyoxime 423
– detmn. of – in human nails by differential-pulse voltammetry 521
– detmn. of – in steel with pyrrole-2-thiocarboxamide by gravimetry 215
– detmn. of iron, cobalt, copper, zinc and lead in – and nickel sulfate by ICP-AES and NAA 502
– detmn. of iron(III) and – in steel and alloys 319
– detmn. of – with anti-2-furaldehyde 2-pyridylhydrazone by photometry 655
– detmn. of – with (Z)-2-thiophenaldehyde-2-pyridylhydrazone by spectrophotometry 498
– detmn. of zinc, magnesium, copper and – in water by kinetic spectrophotometry, substitution of calmagite ligand by EDTA 512
– GLC of – β-aminovinylthionates 215
– sequential extr. detmn. of copper and – with 2,4-dihydroxyacetophenone thiosemicarbazone 640
– TAR-nitro as new spectrophotometric reagent for – 414
Nickel(II)
– detmn. of – by extr.-spectrophotometry, complexation of 1,1,1-trifluoro-5,5-dimethyl-4-amino-3-hexene-2-thion 647
Nickel alloys
– anal. of – by spectrometry, ICP 423
– anal. of – by spectrometry, X-ray, inter-element correction coefficients 423
– detmn. of boron in steel and – by spectrophotometry, extr. with β-diols 321
– detmn. of indium in – and zinc ores by spectrophotometry 649
– detmn. of lead in – by AAS with introduction of solid samples 322
– detmn. of sulfur in – with dimethyl-p-phenylenediamine by spectrophotometry 423
– detmn. of yttrium in – with nitrochlorophosphonazo, p- by spectrophotometry 502
Nickel capillary columns
– use of – in chromatography, gas 406
Nickel electrolytes
– anal. of – by ICP-AES after chemical sepn. 425
Nickel sulfate
– detmn. of iron, cobalt, copper, zinc and lead in nickel and – by ICP-AES and NAA 502
Nicotinamide
– detmn. of – in multivitamin preparations by TLC and densitometry 518
Niobium
– detmn. of – by multiplication reactions between molybdoniobium heteropoly acid and di- or tri-methylthionines 318
– detmn. of – in ores by X-ray fluorescence anal. 510
– detmn. of – in presence of tantalum by cerimetry 318
– detmn. of nitrogen in –, titanium and alloys by biamperometric titration 422
– detmn. of silicon in – by MS after chlorinating gaseous extr. 321
– detmn. of – with PAR by kinetic method 318
– detmn. of – with tetraphenylpyridinium perchlorate and thiocyanate by extr.-spectrophotometry 318
Nitrate
– cationic carrier for –selective liquid membrane electrodes 572
– detmn. of – and nitrite in cured meat by HPLC 432
– detmn. of – and nitrite in meat by flow-injection and AAS 432
– detmn. of – content in metal nitrates by thermoanal. methods 323
– detmn. of – in water by flow injection analysis with copperised cadmium tubes 150
– detmn. of – in water with stable reagent tablets 512
– equivalence test for – and nitrite detmn., comparison of DIN and automatic methods 213
– in ground water, book 481
– removal of humic substances in water prior to measurements with – ion-selective electrode 428
Nitrazepam
– detmn. of – by polarography 517
Nitric acid
– detmn. of – in conc. acid HNO_3-N_2O_4-H_2O system by IR spectrometry 505
– sepn. of –, technetium and palladium from nuclear waste with bidentate carbamoylphosphonates by extr. 425
Nitrite
– detmn. of – by voltammetry with a modified graphite paste electrode 644
– detmn. of – in water by ion-pair chromatography with amperometric detector 512
– detmn. of – in water with 4-amino-1-naphthalenesulfonic acid by spectrophotometry 512
– detmn. of nitrate and – in cured meat by HPLC 432
– detmn. of nitrate and – in meat by flow-injection and AAS 432
– detmn. of – with 1,3-cyclohexanedione bis (4-methylthiosemicarbazone) by spectrophotometry 213
– equivalence test for nitrate and – detmn., comparison of DIN and automatic methods 213
– kinetic detmn. of – based on the Griess reaction 412
– potentiometric titration between sulfite and – ions 412
Nitrobenzene
– coating materials for the detection of – in air with piezoelectric crystals 655
Nitrochlorophosphonazo, p-
– detmn. of yttrium in nickel alloys with – by spectrophotometry 502
Nitro derivatives
– sepn. of – in explosives by two-dimensional TLC 576
Nitrofluoranthenes
– anal. of – and nitropyrenes by capillary GC/MS 586
Nitrofurazone
– detmn. of – in pharmaceutical products by polarography 515
Nitrogen
– detmn. of – in cheese, Kjeldahl method with copper catalyst 584
– detmn. of – in fertilizers with Parnas-Wagner distillation apparatus 579
– detmn. of – in metals and alloys by biamperometric titration 422
– detmn. of – in metals and semiconductors by NAA 501
– detmn. of – in niobium, titanium and alloys by biamperometric titration 422
– detmn. of – in plant materials by NAA 576
– detmn. of – in water by continuous flow method/alkaline persulfate digestion 429
– local detmn. of – and carbon in vegetables with laser conversion into gaseous state, spectral-isotopic methods 335
Nitrogen compounds
– LC behavior of – 498
– sepn. of amines, aromatic and – in HPLC on 3-(p-acetylphenoxy)propylsilane bonded phase 501
Nitrogen dioxide
– high resolution spectral atlas of – 559–597 nm 564
Nitroglycerine
– detmn. of – in blood plasma by GLC using ECD 244
2-Nitroimidazole benznidazole
– detmn. of – in biological materials by HPLC 595
Nitroimidazoles
– sepn. of – by reversed-phase HPLC 337
Nitrolotriacetic acid
– degradation of – by oxidation with lead dioxide suspension 574
Nitrophenacyl esters, p-
– sepn. of corticosteroids and – by HPLC, chemiluminescence with lucigenin 435
Nitrophenylhydrazones
– elution characteristics of phenylhydrazones, mono- and di– of aliphatic carbonyl compounds in HPLC 500
Nitropyrenes
– anal. of nitrofluoranthenes and – by capillary GC/MS 586
Nitrosamines
– detector, electrochemical, swept-potential in HPLC of – 218
– detmn. of N– in tobacco smoke by GC/MS 584
– detmn. of volatile – in meat by GC after simult. distillation-extr. 583
Nitroso compounds
– detector, photolytic chemiluminescence for GC anal. of N– 430
– new involatile N– in smoked bacon 227
Nitrosodiethanolamine
– detmn. of – in 2,4-D by LC and GC 338
Nitroso-R-salt
– extr. chromatography of palladium and platinum complexes with – 320
Nitroxides
– GC/MS of single and double spin adducts of α-phenyl-t-butyl nitron, – and the hydroxylamines of corresponding structure 219
Nivalenol
– detmn. of deoxynivalenol and – in cereals by GC 581
Noble metals
– anal. of – in gold processing solutions by HPLC 647
– new chelating sorbents for – 320
Noble metals compounds
– detmn. of chlorine in – by potentiometry 424

Non-metals
– detmn. of – in metals, nonferrous, modern methods, book 630
Noradrenaline
– detmn. of – and adrenaline in urine by HPLC solid-phase reactors 437
Nordextropropoxyphene
– detmn. of dextropropoxyphene and – in blood serum by HPLC 349
Nordoxepin
– detmn. of doxepin and – in urine by HPLC 444
Norepinephrine
– detmn. of methyldopa and – by spectrophotometry after reaction with aromatic aldehydes 517
Normetanephrine
– detmn. of 3-methoxytyramine, – and metanephrine in cerebrospinal fluid by GC/MS 245
Nortriptyline
– electrochem. detection of amitriptyline, –, imipramine, carbamazepine, tricyclic drugs at polymer electrodes 434
Nuclear corrosion products
– detmn. of iron-55 in – by spectrophotometry and scintillation counting 425
Nuclear fuels
– detmn. of technetium in – with variamine blue by kinetic spectrophotometry 425
Nuclear waste
– sepn. of nitric acid, technetium and palladium from – with bidentate carbamoylphosphonates by extr. 425
Nucleic acids
– detmn. of – by HPLC with electrochem. detection 528
Nucleobases
– detmn. of nucleosides and – in urine by HPLC 441
Nucleosides
– detmn. of – and nucleobases in urine by HPLC 441
– sepn. of nucleotides and – by chromatography, liquid, on polyvinyl alcohol 239
Nucleotide phosphodiesterase
– detmn. of cyclic –, 2′-O-anthraniloyl-AMP as substrate 242
Nucleotides
– detmn. of – by flow injection anal./HPLC 240
– sepn. of – and nucleosides by chromatography, liquid, on polyvinyl alcohol 239
– sepn. of – by RP-HPLC, advantages and limitations 466
– sepn. of –, involved in adenosine-5′-phosphosulfate degradation by TLC 530
– sepn. of –, oligonucleotides as diesters by reversed-phase LC 530
Nucleotide sugars
– resolution of – from plant materials by lectin affinity HPLC 441
Nutrient solutions
– detmn. of phosphate species in – and phosphorus in plant materials 336

O

Ochratoxin A
– detmn. of – in foods by TLC, screening by LC 228
Octanoic acid
– detmn. of acetyltryptophan and – in albumin solutions by HPLC 235
Oils
– charact. of –, lubricants and petroleum products by spectra, IR, book 198
– detmn. of wear metals in – using energy dispersive X-ray spectrometry 574
Oils, edible
– anal. of antioxidants in – and fats by HPLC 582
– detection of tricresyl phosphates in – by TLC and GC 229
Oils, edible
– detmn. of oxidative stability of –, interlab test of automated Rancimat-method 582
Oil shale
– ident. of organic and pyrolytic sulfur in coals and – by thermogravimetry and gas anal. 325
Oils, high boiling
– anal. of – by HPLC and NMR 221
Oils, vegetable
– detmn. of tocopherols in – by voltammetry and HPLC 582
– HPLC anal. of oxidative and polymerized decomposition products in – and heated fats 582
– ident. of brominated – by capillary GC 582
Olefins
– chromatography, gas, prediction of retention indices of selected – 206
Oleic acid
– sepn. of –, stearic acid mixtures by extr. with a supercritical solvent (CO_2) 217
Oligodeoxynucleotides
– sepn. of protected – by reversed-phase HPLC 240
Oligomers
– sepn. of – by chromatography, supercritical fluid with IR detection 223
Oligonucleotides
– sepn. of – by LC on polyvinyl alcohol gel column 240
– sepn. of nucleotides, – as diesters by reversed-phase LC 530
Oligosaccharides
– sepn. of partially methylated mannitols from – by HPLC 346
Opiates
– detmn. of – by circular dichroism 519
– detmn. of – in biological tissues by immunoassay, thin-layer 348
Optical sensor
– anal. with – 387
– detection of oxygen by an – with immobilized hemoglobin 645
Optimization, automated
– of chromatography, HPLC sepn., book 629
Orange essence oil
– anal. of – by GLC 580
Ore process solutions
– detmn. of free acids in – by titration 505
Ores
– detmn. of copper in alloys and – by complexometry 420
– detmn. of copper in solids and – by laser ablation plasma emission spectrometry 420
– detmn. of gold in – with Michler's thioketone, selective extr. with diantipyrylmethane 331
– detmn. of lead and bismuth in – by complexometry, extr. with fatty acids 331
– detmn. of molybdenum(VI) in – by chronovoltammetry with linearly changed potential 332
– detmn. of niobium in – by X-ray fluorescence anal. 510
– detmn. of osmium and iridium in – by kinetic methods 510
Organic acids
– detmn. of – in wheat by capillary GC 580
– detmn. of volatile and non-volatile – in biological materials by capillary GC 342
– extr. of –, food colors by ion-pair formation with tri-n-octylamine 228
– sepn. of – with different oxygen isotopes by reversed-phase LC 416
Organic bases
– detmn. of – by potentiometric titration 518
– detmn. of ionization constants of sparingly soluble – by electrodes, ion-selective 314
Organic chemistry
– applications of dynamic spectrometry, NMR to –, stereochemical analysis, book 629
Organic compounds
– anal. of – in volatile inorganic halides by headspace GC/MS 504
– computer-processed ident. of multicomponent mixtures of – from chromatography, gas data 206
– detmn. of – by amperometric titration 314
– detmn. of chlorine and bromine in – by argentometry 216
– detmn. of fluorine in – by oxygen-flask combustion and potentiometric titration 499
– fluorescence, room-temperature and phosphorescence, room-temperature of – adsorbed on solid surfaces 632
– ident. of – by HPLC with UV detection 415
– peak reversals of – on Bentone-34 modified columns, chromatography, gas 569
– sepn. of – by chromatography, ion exchange with counter-ions 308
– sepn. of –, hydrocarbons, polycyclic aromatic from environmental samples, particulates, solvents and extr. methods 660
– thermometric titrations of sparingly soluble – in aqueous micellar media 222
Organic compounds, nitrogen-containing
– detmn. of – using enzyme electrode 216
Organic compounds, volatile
– detmn. of – by chromatography, gas, collection by simple diffusion 313
– ident. of – in air by GC 332
Organic materials
– anal. of –, acid decomposition in multisample bomb 415
– detmn. of iodine in inorganic materials and – by spectrometry, ICP-AES 607
Organic substances
– mass spectrometry, isotope dilution of inorganic substances and – 661
Organic trace substances
– anal. of – in aqueous solution, preconc. on uncoated capillary columns 429
Osmium
– detmn. of – and iridium in ores by kinetic methods 510
– detmn. of – by sorption-photometry 498
– kinetics of complexation of – with PAR 498
Osmium(VIII)
– detmn. of – and iridium(III) with acenaphthenequinone monothiosemicarbazone 649
– detmn. of – and palladium(II) in mixtures by derivative spectrophotometry 415
Oxalate
– detmn. of – in blood plasma by enzymatic bioluminescent assay 436
– detmn. of – in urine by immobilized enzyme electrode 590
– detmn. of – in urine using oxalate oxidase enzyme electrode 436
Oxamide
– detmn. of – by polarography in presence of Cr-(VI) and Cu(II) 217
Oxcarbazepine
– assay for – and metabolites in blood plasma by GC 444
Oxfendazole
– detmn. of – in feed premixes by LC 578
Oxidases
– detmn. of –, glycolate oxidase in peroximal fractions by chemiluminescence 442
Oxidative stability
– detmn. of – of oils, edible, interlab test of automated Rancimat-method 582
Oxide inclusions
– detmn. of – in aluminum-magnesium alloys, alloys by AAS/spectrophotometry 421
Oxidoreductases
– sepn. of bacterial luciferase from – by affinity chromatography 529

Oxindazac
– stereospecific detmn. of – in pharmaceutical products, biological fluids by HPLC 230
Oxygen
– detection of – by an optical sensor with immobilized hemoglobin 645
– detmn. of bulk and surface – and hydrogen in low carbon iron by vacuum fusion 656
– detmn. of dissolved – in water by AAS 657
– detmn. of dissolved – in water by potentiometric stripping anal. 657
– detmn. of – in gases by new palladium detector, operating conditions 547
– interaction of guanidine hydrogen halides for – liberation in isotope analysis 213
– kinetic detmn. of – in aqueous solutions 645
Oxygen demand
– detmn. of chemical – in waste water and effluents by FIA 657
Oxygen isotopes
– sepn. of organic acids with different – by reversed-phase LC 416
Oxyphenbutazone
– detmn. of – and degradation products by TLC 516
– detmn. of – in pharmaceutical products by spectrophotometry 516
Oxytetracycline
– assay of – in pharmaceutical products by reversed-phase HPLC 231
– detmn. of – in feed premixes and veterinary products by LC 578
Ozone
– detection of reduced sulfur compounds in chromatography, gas using – chemiluminescence 313

P

Paint dryers
– detmn. of cobalt in – and varnishes by differential pulse polarography 329
Paint resins
– anal. of – by pyrolysis MS and GC and IR methods 329
Paints
– detmn. of tin in – by inverted-flame method 329
Palladium
– detmn. of – and cobalt as dithiocarbamate complexes by HPLC without solvent extr. 414
– detmn. of arsenic, antimony and – using morpholine-4-carbodihioate as amperometric titrant 495
– detmn. of – by kinetic method with pyridine-2-aldehyde-2-pyridylhydrazone 320
– detmn. of copper, silver and – by AES after preconc. on Spheronthiol 410
– detmn. of – in catalysts and carbenicillin with 1-(2-pyridylmethylidene)-5-(salicylidene)-thiocarbohydrazone by spectrophotometry 649
– detmn. of – in catalysts by amperometry 503
– detmn. of – using a film ion-selective electrode 498
– detmn. of – with PAR by extr. spectrophotometry, diphenylguanidine for higher sensitivity 320
– extr. chromatography of – and platinum complexes with nitroso-R-salt 320
– poly- and monocrystalline antimony, iridium and – as materials for electrodes, pH-sensing 572
– preconc. of – and sepn. from platinum by extr. chromatography 320
– sepn. of nitric acid, technetium and – from nuclear waste with bidentate carbamoylphosphonates by extr. 425
– sorption of silver, gold and – with polythioether foam 411
Palladium(II)
– detmn. of osmium(VIII) and – in mixtures by derivative spectrophotometry 415
Palladium detector
– detmn. of oxygen in gases by new –, operating conditions 547
Pamoic acid
– detmn. of aluminum traces with – by fluorimetry 411
PAN
– sepn. of cerium(III) with – by extr. 411
PAR
– detmn. of cobalt in cesium iodide/thallium monocrystals with – by extr. spectrophotometry 323
– detmn. of fluoride, zirconium(IV) with – by spectrophotometry 413
– detmn. of indium(III) with – by amperometric titration 412
– detmn. of niobium with – by kinetic method 318
– detmn. of tin(IV) with – by spectrophotometry, after extr. with chlorophenyl-furohydroxamic acid 213
Particulate size distribution
– detmn. of – in exhaust gases of ICP-AES spectrometers 656
Partition coefficients
– evaluation of octanol-water – using capillary chromatography, gas 652
Pattern recognition
– classification of the quality of surface water by means of – 334
– ident. of polymers by library search of pyrolysis mass spectra and – 508
Peak width measurements
– detmn. of acids and bases by – in flow injection analysis 637
– detmn. of acids, bases, metal ions and redox species by – in flow injection analysis 637
Pectins
– anal. of – by GC 431
Penicillamine
– study of enantiomeric purity of D– by HPLC on chiral phases 518
Penicillin G
– detmn. of –, penicillin V and ampicillin in milk by HPLC 583
Penicillins
– anal. of – in biological fluids by HPLC, review 445
– isolation of – by precipitation with ammonium sulfate 231
Penicillin V
– detmn. of penicillin G, – and ampicillin in milk by HPLC 583
Pentachlorophenols
– anal. of – in plant cells by use of ^{14}C-PCP 587
R-N-(pentafluorobenzoyl)phenylglycine
– sepn. of enantiomers by chromatography, HPLC, – as chiral phases 569
Pentafluorobenzyl-p-toluenesulfonate
– detmn. of anions, inorganic as – derivatives by GC/ECD 413
Pentamidine
– detmn. of – in blood serum by HPLC 527
Pentopril
– detmn. of – and metabolite in urine 244
Pentoxifylline
– detmn. of – in blood plasma by HPLC 528
Pepper
– detmn. of piperine in – by HPLC 432
Peptidase
– sensitive assay for PZ– activity by HPLC 530
Peptides
– anal. of amino acids of stained – and proteins from a sodium dodecyl sulfate-polyacrylamide slab gel 438
– chiral recognition of enantiomeric – in water by calorimetry 660
– detmn. of proteins and – by reversed-phase HPLC, spectral properties of trifluoroacetic acid/acetonitrile gradient systems 344
Peptides
– exact FAB and EI/FAB mass spectrometry with – using a direct FAB probe 404
– methods of enzymatic analysis, Vol. IX: proteins and –, book 481
– sepn. of – and isopeptides by HPLC 236
– sepn. of – by reversed-phase LC, flow rate changes 523
– sepn. of phenylthiohydantion-amino acids in proteins and – by fast protein LC 522
– sepn. of proteins and – by HPLC on octadecyl-bonded glass support 236
Perchlorate
– polarographic detmn. of – ions from catalytic current 497
Perchloric acid
– indicators for titrations, non-aqueous with – 493
Peri-acids
– complexation of acetylated and araminated – with barium ions and spectrophotometric titration of aminonaphthyl-8-sulfonic acid derivatives 327
Peroxidase isoenzymes
– detection of – in plant materials by gel electrophoresis 577
Peroximal fractions
– detmn. of oxidases, glycolate oxidase in – by chemiluminescence 442
Peroxyoxalate
– fluorescent compounds for – chemiluminescence detection in chromatography, HPLC 308
Pesticide formulations
– detmn. of pyrethrins in – by capillary GC 338
– detmn. of pyrethrins in – by LC 338
Pesticides
– anal. of – in air, sampling in Chromosorb 102 tubes 584
– anal. of –, inter-lab calibration 338
– charact. of organophosphorus – by GC/MS 339
– detmn. of chlorine in organochlorine – and biphenyls, polychlorinated by MECA 339
– detmn. of –, elements and chemicals in foods, total diet study, tables 432
– detmn. of – in environmental samples, preconc. on macro cross-linking carbon chain sorbents 338
– detmn. of – in foods by capillary GC, computer program for ident. 338
– detmn. of – in foods by GC 338
– detmn. of nitrogen-containing heterocyclic – in plants, soils and natural water by voltammetry 585
– detmn. of organophosphorus – by GC, retention data for 50 on 9 columns 339
– detmn. of pheromones in – by IR and UV spectrometry 586
– movement of some carbamoyl group containing – in soils 579
– sepn. of – by countercurrent chromatography 338
– sepn. of pollutants and – by GC, new bonded stationary phase 339
Petrochemical raffinate
– detmn. of sulfolane in – by GC 221
Petroleum
– detmn. of hydrocarbons, polycyclic aromatic in – by TLC and GC/MS 651
– detmn. of nickel and vanadium in – by polarography 506
– detmn. of sulfides and thiols in – systems by automated potentiometric titration 573
Petroleum fractions
– anal. of heavy – by capillary GC, automated simulated distillation 221
– detmn. of elemental sulfur in crude oils and – by potentiometric titration 325
– detmn. of hydrocarbons, aromatic in – by IR spectrometry 220

Petroleum fractions
– detmn. of naphthalenes in – by second-derivative UV spectrometry 650
Petroleum products
– charact. of oils, lubricants and – by spectra, IR, book 198
– detmn. of hydrocarbons, aromatic in – by NMR 573
– detmn. of vanadium in – by catalytic method, chlorpromazine oxidation 220
Petroleum residues
– anal. of – by desorption-chemical ionization mass spectrometry 506
– sepn. of – by chromatography, supercritical fluid 221
Petroleum sludge
– anal. of weathered – in soils in HPLC and GC 506
Pharmaceutical creams
– detmn. of methyl nicotinate in – by HPTLC 232
Pharmaceutical products
– assay of oxytetracycline in – by reversed-phase HPLC 231
– detmn. of amino compounds in – by room temperature phosphorescence 515
– detmn. of ascorbic acid in – and fruit juices by spectrophotometry, as Cu(I) with neocuproin 580
– detmn. of baclofen in – by fluorimetry 231
– detmn. of biotin in – in HPLC with electrochem. detection 514
– detmn. of boric acid in – by automated flow-injection pseudotitration 229
– detmn. of cephalosporins in – by polarography 518
– detmn. of chlorpheniramine and diphenhydramine in – by HPLC 433
– detmn. of chlorpromazine in – by third-order UV spectrometry 517
– detmn. of hydralazine in – by HPLC 516
– detmn. of insulins in – by HPLC 434
– detmn. of mebendazole in – by spectrophotometry 515
– detmn. of mebeverine hydrochloride in – by HPTLC 516
– detmn. of nitrofurazone in – by polarography 515
– detmn. of oxyphenbutazone in – by spectrophotometry 516
– detmn. of phenylpropanolamine hydrochloride and acetaminophen in – by Raman spectrometry 230
– detmn. of precursors and side products in – by thermoanal. methods 230
– detmn. of quinine in – by extr.-spectrophotometry 518
– detmn. of salicylic acid in – by HPLC 229
– detmn. of silver in – by catalytic titration, inhibition of $SbCl_6^-/I^-$ reaction 229
– detmn. of –, SQ 27,519 in blood serum by capillary GC 244
– detmn. of tartaric acid, citric acid and total carbonate in – by potentiometric titration 515
– stereospecific detmn. of oxindazac in –, biological fluids by HPLC 230
pH calculation
– of solutions and mixtures of acids, bases and salts 410
Phenacyl bromide
– extr. alkylation of fatty acids with –, studies by LC 416
1,10-Phenantholine
– detmn. of iron(II) with – and tetraiodofluorescein by spectrophotometry 413
Phenanthrene
– detmn. of – and methylphenanthrene in crude oils by multidimensional capillary GC 221
Phenazopyridine
– detmn. of – hydrochloride by amperometric flow-injection method at glassy carbon electrode 433
Phenobarbitone
– sepn. of –, thiourea and thioacetamide by HPLC 516
Phenol
– detmn. of –, cresols and xylenols in workplace air by HPLC with electrochem. detection 655
Phenol-formaldehyde condensates
– sepn. and ident. of – as TMS derivatives by GC/MS 574
Phenolic acid
– detmn. of – in fruit juices by LC with voltammetric detection 218
Phenolic acids
– sepn. of phenylethylamines and – by HPTLC 218
Phenolic compounds
– detmn. of – in plants by TLC and HPLC 336
– sepn. of – by reversed-phase HPLC on β-cyclodextrin column 418
Phenolic compounds, chlorinated
– anal. of – by GC with N-P-detector 418
Phenolic groups
– detmn. of – in phlobaphene and tannin of pine bark by conductometry 577
Phenolic hydroxyl groups
– detmn. of – in coal hydroproducts by ^{29}Si NMR spectrometry 506
Phenol red
– detmn. of bromide in drugs with – by automated FIA 515
Phenols
– charact. of – from coal liquids by ^{119}Sn NMR spectrometry, as tri-n-butyltin derivatives 220
– detmn. of disinfectants, – in waste water by capillary GC 20
– detmn. of – in smoked fish, problems in solvent extr. 227
– detmn. of – in water and waste water by HPLC 335
– detmn. of trace – in water by GC 429
– in smoke dust for foods, detection and ident., book 564
Phenothiazines
– detmn. of – by charge-transfer complex formation with chloranilic acid 433
– detmn. of three N-substituted – by flow injection analysis, amperometric detection at carbon fibre array electrode 231
α-Phenyl-t-butyl nitron
– GC/MS of single and double spin adducts of –, nitroxides and the hydroxylamines of corresponding structure 219
Phenylethylamine
– detmn. of β– in biological materials by HPLC/fluorimetry 234
Phenylethylamines
– sepn. of – and phenolic acids by HPTLC 218
Phenylhydrazones
– elution characteristics of –, mono- and di-nitrophenylhydrazones of aliphatic carbonyl compounds in HPLC 500
Phenyl isocyanate
– detmn. of – in a flow-injection system with IR detection 217
Phenyl-2-mercaptoacetamide
– indirect detmn. of trace N– 501
N-phenyl-2-mercaptoacetamide disulfide
– detmn. of copper with – by kinetic method 315
N-phenyl -1-naphthylamine
– detmn. of critical micelle concentration of surfactants with – by fluorimetry 575
Phenylpropanolamine
– detmn. of – hydrochloride and acetaminophen in pharmaceutical products by Raman spectrometry 230
2-Phenylpropionic acid
– enantiospecific HPLC anal. of –, ketoprofen and fenoprofen in biological fluids 243
Phenyl-Sepharose CL-48
– detmn. of ligands in –, gels, three methods 652
Phenyl siloxane polymers
– new polar substituted – for capillary chromatography, gas 570
2′-(4-Phenyl-2-thiazolylazo)-4′-methyl-5′-ethyl-aminophenol
– analytical capabilities of – 494
Phenylthiocarbamyl amino acids
– detmn. of –, amino acids by reversed-phase HPLC 343
Phenylthiohydantoin amino acids
– ident. of – by HPLC and automated protein sequencer 342
– sepn. of – by chromatography, electrokinetic with micellar solutions 342
– sepn. of – by reversed-phase LC, prediction of retention 342
Pheophytins
– detmn. of chlorophylls and – in plant extracts by spectrophotometry 336
Pheromones
– detmn. of – in pesticides by IR and UV spectrometry 586
Phlobaphene
– detmn. of phenolic groups in – and tannin of pine bark by conductometry 577
pH-measurements
– in micellar systems 490
– interlaboratory comparison of – in poorly buffered fresh water 638
– reference value standards for – in 5, 15 and 30% acetonitrile/water 409
Phoma cultures
– anal. of phomenone in – by HPLC and TLC 525
Phomenone
– anal. of – in Phoma cultures by HPLC and TLC 525
Phosphatase, prostatic acid
– detmn. of – in blood serum by FIA using holding coils for long incubation times 441
Phosphate
– detection and detmn. of ortho – in polyacrylamide gels, staining with molybdate-methyl green 412
– detmn. of arsenite, arsenate and – in mixtures by FIA 645
– detmn. of – as phosphomolybdic acid, examination of standard methods 644
– detmn. of inorganic – in blood serum by enzymatic anal. 233
– detmn. of – species in nutrient solutions and phosphorus in plant materials 336
– sulfate and – electrodes, ion-selective, review 572
Phosphate rocks
– detmn. of the total lanthanides in –, rocks 479
– ident. of volatile compounds of acid-treated – by GC/MS 331
Phosphates
– detmn. of – and polyphosphates in environmental materials 428
– detmn. of – by kinetic fluorimetry 213
Phosphates, organic
– sepn. of – and inositol triphosphate by HPLC/enzyme-loaded post-column detector 216
Phosphatidylcholine
– detmn. of – species by HPLC 346
Phosphine
– detmn. of – in high-purity germanium hydride 504
Phosphine oxide
– sepn. of – enantiomers by chromatography, subcritical fluid on chiral phase 216

Phosphinolipids
– sepn. of – and phosphonolipids by silicic acid column chromatography 524
Phosphinothricin
– detmn. of –, antibiotics in biological cultures by HPLC after derivatization 434
Phosphoamino acids
– sepn. of – by isocratic HPLC 343
Phosphohydrolase
– detection of – in polyacrylamide gel with malachite green-phosphomolybdate 442
Phospholipids
– anal. of – by thermospray LC/MS 524
– detmn. of higher fatty acids in – by GC and TLC 237
– resolution of – on $CuSO_4$-impregnated Chromarods 440
Phosphonium compounds, quaternary
– anion effects in chromatography, gas, pyrolysis of – 507
Phosphonolipids
– sepn. of – by silicic acid column chromatography 346
– sepn. of phosphinolipids and – by silicic acid column chromatography 524
Phosphorescence, room-temperature
– fluorescence, room-temperature and – of organic compounds adsorbed on solid surfaces 632
– of some indolecarboxylic acids 219
Phosphoric acid
– detmn. of uranium in – by spectrophotometry 505
– solubility of trioctylamine in water and – solutions 326
Phosphoric acids
– detmn. of – in polycarboxyphosphinates by ion chromatography with conductivity detection 412
Phosphorus
– assay of – in lipids of brain tissue by modified Bartlett assay 524
– detmn. of – and silicon by chromatography, HPLC with ICP detector 203
– detmn. of – in airborne particulates by ICP spectrometry and ion chromatography 333
– detmn. of – in cereal lipids, comparison of digestion methods 580
– detmn. of – in silicon using two-laser thermolense 503
– detmn. of – in the form of molybdophosphoric heteropoly acid by voltammetry 318
– detmn. of phosphate species in nutrient solutions and – in plant materials 336
– detmn. of total – in water by photochemical decomposition 334
– detmn. of – traces in water with Guinea Green B by spectrophotometry 512
– detmn. of volatile hydrides of –, arsenic, antimony, selenium and tin by photochemical reaction/light-scattering 645
– fractionation of iron and – in surface water using d.c. ICP-AES 659
Photoaffinity reagents
– labelling of proteins with new –, N.N′-bis-(4-azidobenzoyl) cystine 344
Photochromism
– of silver and mercury(II) dithizonates 485
Photographic materials
– detmn. of toluidine, m- in – by GLC 651
Photometric analysis
– for samples of higher concentration, new method 102
Photometric titration
– , solid-state dichrotitrator 492
Photosensors
– acid/base titrations using – and membrane photosensors 638
Phyllohydroquinone
– purification and spectral anal. of – and phylloquinone 434
Phylloquinone
– purification and spectral anal. of phyllohydroquinone and – 434
Phytanic acid
– detmn. of – in blood serum by capillary GC 237
α-Picoline
– detmn. of rhodium with diphenylcarbazide and – by extr. spectrophotometry 414
Picramin M
– complexation with gallium and indium of – 643
– detmn. of gallium with – by spectrophotometry 643
Picric acid
– detmn. of alkyl halides and epoxides in environmental materials in HPLC, – derivatization 511
Piezoelectric crystals
– coating materials for the detection of nitrobenzene in air with – 655
– detmn. of hydrogen cyanide in air using mass amplification on – 656
– detmn. of mercury(II) in water with – 642
Pinacidil
– detmn. of – in blood plasma by HPLC 443
Pine bark
– detmn. of phenolic groups in phlobaphene and tannin of – by conductometry 577
Piperine
– detmn. of – in pepper by HPLC 432
Piquindone
– detmn. of – in blood plasma and urine by HPLC 444
Pirbuterol
– detmn. of – hydrochloride by fluorimetry and spectrophotometry 516
Pirenzepine
– detmn. of – dihydrochloride in its pharmaceutical formulation by HPLC 433
Plant cells
– anal. of pentachlorophenols in – by use of ^{14}C-PCP 587
Plant extracts
– detection of biotinyl proteins, proteins in – with streptavidin after gel electrophoresis 335
– detmn. of chlorophylls and pheophytins in – by spectrophotometry 336
– detmn. of cytokinins in – as t-butylmethylsilyl derivatives by GC/MS 440
– detmn. of soluble sugars in – by enzymatic anal. 576
– sepn. of choline, glycinebetaine aldehyde in – by HPLC 336
Plant leaves
– fatty acid composition of lipids of – 336
Plant materials
– anal. of fertilizers and – by NAA for N, P, K and Si 579
– detection of peroxidase isoenzymes in – by gel electrophoresis 577
– detmn. of 8-hydroxyquinoline in – by GC 577
– detmn. of boron in – by AAS using direct atomization of methyl borate 335
– detmn. of hydrocarbons, polycyclic aromatic in – by GC 577
– detmn. of iron in – with bromo-pyridylazo-dimethylaminophenol by spectrophotometry 196
– detmn. of molybdenum in – by catalytic method, I^-/H_2O_2 reaction 576
– detmn. of nitrogen in – by NAA 576
– detmn. of phosphate species in nutrient solutions and phosphorus in – 336
– detmn. of total nonstructural carbohydrates in – by dual enzyme method 577
– resolution of nucleotide sugars from – by lectin affinity HPLC 441
Plant poisons
– poisonous plants and –, book 482
Plants
– detmn. of anions, inorganic in water extracts of – and soils by ion chromatography 337
– detmn. of boron in – and water with crystal violet by spectrophotometry 513
– detmn. of nitrogen-containing heterocyclic pesticides in –, soils and natural water by voltammetry 585
– detmn. of phenolic compounds in – by TLC and HPLC 336
– sepn. of caffeoylquinic acids in – by HPLC 336
Plant tissues
– detmn. of dihydrofurochinoleinium-alkaloids in – by TLC and fluorodensitometry 336
Plastics
– atlas for analysis of polymers and – 197
– charact. of additives in – by LC/MS 653
– detmn. of metals in – by electron microprobe microanalyzer 224
– detmn. of residual ethylene oxide in sterilized – by headspace GC 327
– detmn. of trace metals in – by AAS with cup-in-tube solid sampling 508
– study of oxidative degradation of – by GC and GC/MS 224
Plating solutions
– sepn. of silver(I) from – by extr. with 2,4-dihydroxyacetophenone thiosemicarbazone 647
Platinum
– detmn. of – and rhodium in catalysts by ICP-AES 649
– detmn. of gold and – in alloys by ICP-AES 421
– detmn. of – in catalysts by AAS 649
– detmn. of ruthenium in – with Rhodamine 6G by flotation/spectrophotometry 649
– detmn. of trace – by AAS, interference by copper and other heavy metals 175
– detmn. of – with ethylisobutrazine hydrochloride by spectrophotometry 321
– extr. chromatography of palladium and – complexes with nitroso-R-salt 320
– preconc. of palladium and sepn. from – by extr. chromatography 320
Platinum alloys
– detmn. of gold in – by coulometry at controlled potential 503
– detmn. of rhodium in – by spectrophotometry 503
Platinum electrodes
– prep. of micrometer-spaced platinum interdigitated array electrode, – 636
Platinum-graphite polarisable electrode system
– detmn. of mercaptans with iodine, – for non-aqueous biamperometric indication 314
Plutonium
– detmn. of uranium in presence of – by potentiometric titration 411
– detmn. of – with cerium(IV) by potentiometric titration 412
Poisonous plants
– and plant poisons, book 482
Poisons, non-drug
– detection of – in stomach contents with various color reagent 596
Polarimetry
– signal-to-noise optimization in – 314
Polarography
– Kalman filter for the evaluation of the current-time function in d.c. – 639
Polarography, pulse
– detmn. of trace elements by –, homogeneous catalytic systems 489
Pollen
– detmn. of carbaryl in bees and – by HPLC 585
Pollutants
– sepn. of – and pesticides by GC, new bonded stationary phase 339

Polyacrylamide gels
– apparatus for electrophoresis in microcapillary – 636
– detection and detmn. of ortho phosphate in –, staining with molybdate-methyl green 412
– prep. of rehydratable – for ultrathin-layer isoelectric focusing 636
Polyamines
– assay of – by TLC and a combination of double-isotope dilution and scintillation 437
– detmn. of diamines and – in biological fluids by chemiluminescence 522
– detmn. of – in polyurethanes by HPLC after alkali fusion 223
Polyarenes
– computer-processed qual. anal. of complex mixtures of – from luminescence spectra 501
Polycarboxyphosphinates
– detmn. of phosphoric acids in – by ion chromatography with conductivity detection 412
Polyester fibres
– detmn. of dyes, disperse in – and HPLC 328
Polyethers, macrocyclic
– polarographic reduction of some complexes of uranium with – 411
Polyethyleneglycol
– detmn. of cholesterol in blood serum by precipitation with – 524
Poly(ethylene glycols)
– detmn. of –, barium and sulfate ions using ion-selective electrode 507
– detmn. of free – in hydroxyethylated fatty acids by ^{1}H NMR spectrometry 416
Polymer analysis
– pyrolysis and GC in –, book 303
Polymer electrodes
– electrochem. detection of amitriptyline, nortriptyline, imipramine, carbamazepine, tricyclic drugs at – 434
Polymer films
– anal. of thin – by FT-IR spectrometry 575
– error estim. in spectrometry, FTIR difference on – 258
Polymeric additives
– detmn. of solvents in – by thermogravimetry 508
Polymer-polymer interaction
– thermal anal. for investigation of – 574
Polymers
– anal. of fossil fuels and – by thermal anal./MS 325
– atlas for analysis of – and plastics 197
– correlation chromatography, gas of thermal degradation products of thermostable – 653
– detmn. of trace – in waste water by spectrophotometry 429
– ident. of – by library search of pyrolysis mass spectra and pattern recognition 508
– ident. of – by pyrolytic GC with selective detectors 223
– photo-cured – in calcium electrode for flow-injection anal. 224
– preconc. of volatile sulfurorgano compounds in air on porous – 511
– sepn. of – by LC, precipitation and adsorption phenomena 653
– sepn. of water-soluble – by field-flow fractionation 653
Polymers, biomedical
– surface and interfacial aspects of –, book 199
Polymers, organometallic
– charact. of – by size exclusion chromatography 653
Polymer surfaces
– detection of dyes on – by LAMMA 328
Poly-γ-methyl-L-glutamate
– as packing for chromatography, gel 204
Polynitrodiphenyloxides
– detmn. of – in 4,4′-dinitrodiphenyloxide by spectrophotometry 509
Polyolefins
– detmn. of additives in – by capillary GC 224
Polypeptides
– detection of – in polyacrylamide gels, picrate fixation 523
– ident. of disulfide-bonded – by SDS electrophoresis, gel 591
– sepn. of – by electrophoresis, gel, with gradient gel 438
Polyphosphates
– detmn. of phosphates and – in environmental materials 428
– prediction of retention times for inorganic – in ion-exchange chromatography 323
– sepn. of inorganic – by HPLC 645
Polypropylene
– detmn. of additives in – by selective chemical ionization MS 575
Poly(pyrrole-N-carbodithioate) electrode
– chemically modified electrodes, – 636
Polysaccharide gums
– detmn. of – in foods by GC 225
Polystyrene oligomers
– sepn. of isomeric – by LC 328
Polystyrenes
– anal. of chem. modified – by pyrolysis capillary GC 328
Polythioether foam
– sorption of silver, gold and palladium with – 411
Poly(triphenylmethylmethacrylate)
– HPLC resolution of enantiomers on optically active – 203
Polyurethane elastomers
– anal. of – by GC and GPC 327
Polyurethane foam
– detection of cadmium and copper with reagent-loaded – 316
– extr. of molybdenum, tungsten and technetium with – 637
– sepn. of trace uranium from waste water on – 428
Polyurethanes
– anal. of polyether-based – by GC, after acid fusion 653
– detmn. of polyamines in – by HPLC after alkali fusion 223
Polyvinyl alcohol
– sepn. of nucleotides and nucleosides by chromatography, liquid, on – 239
– sepn. of oligonucleotides by LC on – gel column 240
Poly(vinyl chloride)
– detmn. of calcium, aluminum and antimony in – by AAS 575
– detmn. of vinyl chloride in – by polarography 507
– sepn. of additives in – by HPLC 575
Polyvinylpyridines
– detmn. of the degree of quaternisation of – by coulometry 329
Porphobilinogen
– detection of δ-aminolevulinic acid, – and porphyrins by HPLC 441
Porphyrins
– detection of δ-aminolevulinic acid, porphobilinogen and – by HPLC 441
– detmn. of dicarboxylic – in tumor cells by LC and TLC 441
– sepn. of –, isomers in urine by HPLC 347
Potassium
– detmn. of – in silicate materials by NAA 330
– detmn. of sodium and – in blast furnace slags by spectrometry 692
– influence of certain factors on the potential of valinomycine-based – electrodes, ion-selective 640
Potassium
– in vivo measurement with – microelectrodes, ion-selective, new bis(crown ether) 340
– potentiometric detmn. of – and ammonium ions in the presence of each other 211
Potassium nitrate
– detmn. of – and sodium monofluorophosphate in dentifrices by LC 229
Potassium sulfosylicylate
– as standards in alkalimetry 493
Potentiometric detector
– with a copper metal electrode for detmn. of metal ions 208
Potentiometric stripping analysis
– flow-injection – 408
Potentiometric titration
– anal. of variance in detmn. of equivalence volume and ionic product of water in – 638
– factors affecting the precision of anal. by – of weak acids 638
Potentiometry
– derivative time-root – with an analog device and micro-computer 208
Potentiometry, stripping
– detmn. of heavy metals by –, carbon fibre microelectrodes 636
Powdered materials
– influence of halogen and sulfur atoms on the intensity of impurity element lines in spectrometry, atomic emission of – 504
Power plant
– on-line chromatography, ion in a thermal – 647
Precision
– factors affecting the – of anal. by potentiometric titration of weak acids 638
Preconcentration, electrolytic
– in instrumental analysis 636
Prekallikrein
– ultramicro assay for human blood plasma – activity 448
Pressure decomposition bombs
– anal. of trace elements, modified insert for – 297
Process streams
– detmn. of cyanovaleric acid and carboxylic acids in – by LC 651
– detmn. of dichlorohydrin in – by GLC 651
Proflavin
– anal. of hydrocarbons, polycyclic aromatic with – and eosin by fluorimetry 219
Progesterone
– anal. of estradiol esters, testosterone and – in oily injections 435
– detmn. of testosterone propionate, – and estriol benzoate in bovine implants by HPLC 435
Prokallikrein
– detmn. of – in blood plasma by automated method 448
1,3-Propanesulton
– detmn. of – in workplace atmospheres by HPLC/UV detection 57
Propanoic acid
– detmn. of acetic acid, formic acid and – in rain water and HPLC 333
Propantheline
– detmn. of chlorpromazine, amitriptyline, – and meperidine by electrodes, ion-selective, prep. of liquid membranes 517
2-Propionyl-1-naphthol oxime
– sepn. of manganese(II) with – by extr. into $CHCl_3$ 414
Propranolol
– assay of – and metabolites in blood plasma by HPLC 526
– detmn. of – in blood plasma by HPLC 443
Propylene carbonate
– detmn. of propylene glycol as impurity in – by GC 312
Propylene glycol
– detmn. of – as impurity in propylene carbonate by GC 312

Prostaglandins
– detmn. of – in semen by GC with ECD 592
– sepn. of – by reversed-phase TLC, influence of mobile phase 347
– sepn. of cis-trans isomers of – by HPLC with a cyclodextrin bonded column 440
– sepn. of –, oxidized by pyridinium dichromate by HPLC 239
Protactinium
– sepn. of – with morin by extr. 411
Proteases
– detection of – in cells and tissues by HPLC 243
Protein
– anal. of – traces in sea water and biological fluids by automated fluorescence assay 660
– detmn. of fats, – and lactose in ewe milk by automated IR spectrometry 583
Protein hydrolysates
– sepn. of amino acids as o-phthalaldehyde derivatives in – by reversed-phase HPLC 235
Protein kinases
– sepn. of – from protein substrates on casein-phosvitin-Sepharose column by HPLC 243
Protein nitrogen
– detmn. of – in cereals by proton activation anal. 580
Proteins
– anal. of amino acids of stained peptides and – from a sodium dodecyl sulfate-polyacrylamide slab gel 438
– anal. of – by electrophoresis, electrotransfer from polyacrylamide gels to cellulose membrane 438
– anal. of – by electrophoresis, gel, protein transfer from gels onto nitrocellulose paper 438
– anal. of – by ultracentrifugation, apparatus for automated fractionation 519
– anal. of – in bovine milk by LC 583
– anal. of – in urine by two-dimensional gel electrophoresis 344
– detection of biotinyl proteins, – in plant extracts with streptavidin after gel electrophoresis 335
– detection of inactive enzymes and – in electrophoresis, immunodetection on Cellogel 241
– detection of – in electrophoresis, gel, staining with colloidal iron 591
– detmn. of – and peptides by reversed-phase HPLC, spectral properties of trifluoroacetic acid/acetonitrile gradient systems 344
– detmn. of – by electrophoresis, fluorescent staining method in SDS gels 344
– detmn. of cysteinyl residues in reduced –, 2-bromoethylamine instead of ethyleneimine 236
– detmn. of – in sample buffer for electrophoresis 344
– detmn. of methionine sulfoxide in – and foods by amino acid analyzer 226
– detmn. of molecular weight of – by electrophoresis, gel, standard curves 523
– detmn. of triton X-100 in – by derivative spectrophotometry 232
– detmn. of – with Folin reagent study of redox stoichiometry and reaction products 344
– ident. of tyrosine O-sulfate in – by HPLC 523
– labelling of – with new photoaffinity reagents, N,N′-bis(4-azidobenzoyl) cysteine 344
– Lowry – detmn. by flow injection anal. for bovine serum albumin and hepatitis B surface antigen 345
– methods of enzymatic analysis, Vol. IX: – and peptides, book 481
– quant. of carboxyl groups in – with Woodward's reagent by spectrophotometry 236
– sepn. of – and peptides by HPLC on octadecyl-bonded glass support 236
– sepn. of – by chromatography, HPLC, hydrophobic-interaction 591
Proteins
– sepn. of – by chromatography, HPLC, new anion-exchange columns 591
– sepn. of – by chromatography, HPLC, new loading technique 307
– sepn. of – by electrophoresis, capillary zone, in untreated silica tubes 523
– sepn. of – by reversed-phase HPLC, optimization 591
– sepn. of nuclear – by two-dimensional electrophoresis 240
– sepn. of phenylthiohydantion-amino acids in – and peptides by fast protein LC 522
– staining of – in polyacrylamide gels, increased sensitivity through a combined Coomassie-blue-silver stain procedure 345
Proteins, biotinylated
– as molecular weight standards on western blots 524
Proteoglycans
– anal. of – by gel electrophoresis 439
– continuous-flow monitoring of hexuronic acids by carbazole reaction during gel filtration of – in urea solutions 439
Proteolytic activity
– assay for – in tissues with fluorescein-labeled gelatin/Sepharose 4B 243
Protonation constants
– MINIPOL, a desk computer program for refinement of – from DPP 494
Protoporphyrinogen oxidase
– detmn. of coproporphyrinogen oxidase and – by fluorimetry 241
Pueratiae radix
– anal. of isoflavones in – by HPLC with amperometric detection 229
Purge-and-trap analysis
– study of – for chromatography, gas 407
Purines
– detmn. of – and pyrimidines in biological fluids by reversed-phase HPLC 239
– sepn. of – and pyrimidines by HPLC with photometric and electrochem. detection 530
Pyrene
– detmn. of residual – and monochloropyrene in water by derivative spectrofluorimetry 660
Pyrethrins
– detmn. of – in pesticide formulations by capillary GC 338
– detmn. of – in pesticide formulations by LC 338
Pyrethroids
– detmn. of – by HPLC with liquid scintillation detector 339
– ident. of – enantiomers by HPLC with two detectors 339
– sepn. of – enantiomers by chiral HPLC 585
Pyridine-2-aldehyde-2-pyridylhydrazone
– detmn. of palladium by kinetic method with – 320
– kinetic detmn. of cobalt in soils with – 646
Pyridine dinucleotides
– anal. of – in tissues, animal by HPLC 240
Pyridines, chlorinated
– anal. of isomeric – by reversed-phase HPLC 652
Pyridoxal 5′-phosphate
– detmn. of – in blood plasma by HPLC 238
1-(2-Pyridylmethylidene)-5-(salicylidene)-thiocarbohydrazone
– detmn. of palladium in catalysts and carbenicillin with – by spectrophotometry 649
Pyrimidine-5′-nucleotidase
– assay of – by spectrophotometry 242
Pyrimidines
– detmn. of purines and – in biological fluids by reversed-phase HPLC 239
– sepn. of purines and – by HPLC with photometric and electrochem. detection 530
Pyrite
– detmn. of sulfur in – by potentiometric titration 331
Pyrocatechol-1-aldehyde 2-pyridylhydrazone
– detmn. of zinc with – by fluorimetry 641
Pyrogallol red
– detmn. of bromate by spectrophotometry, oxidation of – 214
Pyrophosphatase, inorganic
– measurements of kinetic parameters of – 442
Pyrophosphate
– detmn. of inorganic – in biological materials by continuous enzymatic monitoring 233
Pyrrole-2-thiocarboxamide
– detmn. of nickel in steel with – by gravimetry 215
Pyrrolizine isopropyl carbamate
– detmn. of – by HPLC 518
Pyrroloquinoline quinone
– detmn. of – in enzymes by enzymatic methods 241
Pyruvate
– detmn. of –, lactate and glucose in cerebrospinal fluid by enzymatic spectrophotometry 522
– detmn. of – with lactate dehydrogenase immobilized on a pyrolytic carbon fibre microelectrode 522

Q

Quinine
– detmn. of – in pharmaceutical products by extr. -spectrophotometry 518
1-(2-Quinolyl-azo)-m-aminophenol
– detmn. of vanadium with – by photometry 496

R

Racemates
– sepn. of – by chromatography, liquid on chiral cellulose triacetate 204
Radicals
– sepn. of free – by chromatography, HPLC with ESR detection 308
Radiochemical analysis
– comparative and interpolation methods in –, interfering elements 485
Radiometry
– theory of two-step substoichiometric separation in – 633
Rate constants
– effects of errors on pseudo-first-order – 409
Reaction kinetics
– application of electrodes, ion-selective in – and kinetic analysis 208
Reactor coolant
– anal. of trace elements in – by HPLC 425
– detmn. of soluble iron in – by differential-pulse stripping voltammetry 647
Receptor modeling
– in environmental chemistry, Vol. 76 in Chemical Analysis, book 400
Redox reactions
– universal rule for calculation of equivalence factor for – 408
Red-violet, cationic
– detmn. of lead with – by solvent photometry 317
Refuse dumps
– economy of water and solids at –, book 303
Regression, straight-line
– rejection of a deviant point from a – 410
Residue reviews
– , book 199
– , Vol. 95, book 304
– , Vol. 96 630
Response system
– fast – for spectrometry, atomic absorption 305
Retention indices
– chromatography, gas, prediction of – of selected olefins 206

Retention indices
– Kováts – for ident. of hydrocarbons in linear temperature programmed capillary GLC 206
Retinoic acid
– detmn. of – in blood plasma by GC/MS 525
Retinoids
– detmn. of – by HPLC, as retinal (O-ethyl) oxime derivatives 592
– detmn. of – by HPLC, tritiated internal standards 592
Retinol
– detmn. of – and α-tocopherol in feeds by LC, cartridge extr. 337
Rhamnosidase
– detmn. of – activity in naringinase by spectrophotometry 243
Rhenium
– detmn. of – in molybdenum concentrates with tetrazolium salts by spectrophotometry 504
Rhenium(VII)
– sepn. of –, molybdenum(VI) and vanadium(V) by chromatography, thin-layer, on Al_2O_3 407
Rhodamine 6G
– detmn. of ruthenium in platinum with – by flotation/spectrophotometry 649
Rhodium
– detmn. of – and ruthenium in sulfide ores by extr. and voltammetry 510
– detmn. of – in platinum alloys by spectrophotometry 503
– detmn. of platinum and – in catalysts by ICP-AES 649
– detmn. of – with diphenylcarbazide and α-picoline by extr. spectrophotometry 414
Ribonucleosides
– detmn. of – by GC, silylation reagents 596
Ribonucleotide reductase
– detmn. of – by nitrocellulose filter binding assay 442
Rocks
– detmn. of boron in – by ICP-AES, trace presepn. 330
– detmn. of lanthanides in – and minerals and HPLC 330
– detmn. of the total lanthanides in phosphate rocks, – 479
– detmn. of tin in – and minerals by chelate extr. AAS 509
– detmn. of tin in – by electrothermal AAS, effect of organic matrices 331
– detmn. of trace elements in – by AAS, presepn. by ion-exchange 330
Rodenticides
– detmn. of warfarin and sulfaquinoxaline in – by LC 586
^{131}I-Rose Bengal
– detmn. of surfactants, anionic with – by two-phase titration 653
Rubber
– detmn. of organic additives in ethylene-propylene dien monomer – by HPLC 328
Rubeanic acid
– detmn. of technetium with – by spectrophotometry 497
Ruthenium
– detmn. of – and iridium in industrial solutions by kinetic methods 505
– detmn. of – in platinum with Rhodamine 6G by flotation/spectrophotometry 649
– detmn. of – in tungsten by spectrometry 502
– detmn. of rhodium and – in sulfide ores by extr. and voltammetry 510
– detmn. of – traces in geological materials by laser photoionization spectroscopy 510
Ruthenium tetroxide
– insight into structure of coals from degradation with – and tandem MS 220
Ryosidine
– detmn. of – in blood plasma by GLC 526

S

Safety
– in chemistry, book 399
Salbutamol
– detmn. of – in blood plasma and urine by HPTLC 526
Salicylate
– detmn. of – in blood serum using an immobilized enzyme electrode 522
Salicylic acid
– detmn. of impurities in – by HPLC, optimization 515
– detmn. of – in pharmaceutical products by HPLC 229
Salinomycin
– detmn. of monensin, narasin and – in feeds by HPLC 337
Saliva
– detmn. of copper, zinc and iron in parotid – by FIA-AAS 589
– detmn. of enoxacin and metabolite in blood plasma, urine and – by HPLC 245
– detmn. of theophylline in – by fluorescence polarization immunoassay 446
Salt solutions
– detmn. of metals in – by spectrometry, hanging mercury-drop electrodeposition technique 324
Samarium
– detmn. of –, europium, ytterbium and lutetium in silicate rocks by AES 509
– detmn. of –, gadolinium and dysprosium in uranium products by direct current plasma spectrometry 650
– detmn. of – traces via cupferron complex by polarography 110
Samarium-cobalt alloys
– anal. of – by X-ray diffraction spectroscopy 423
Sample preparation
– detmn. of lanthanides, La, Ce, Nd, in environmental materials by energy dispersive X-ray fluorescence, – 105
Sampling
– new – technique for reversed-phase chromatography, HPLC/spectrometry, FT-IR 306
– wind directed – and multielement analysis of atmosph. aerosols by ICP-AES/GF-AAS, air pollution 50
Scaling
– of analytical data 210
Schiff bases
– sepn. of metal chelates of – on fused-silica WCOT columns by GC 206
Sedimentation field-flow fractionation
– , general retention theory 489
Sedimentation-flotation focusing field-flow fractionation
– , experimental implementation 489
Sediments
– accuracy in detmn. of trace metals in certified reference – 330
– detmn. of ammonia in – and soils with ISE 337
– detmn. of iron(III) in – with salicylaldehyde by spectrophotometry 646
– detmn. of selenium in – by fluorimetry, DAN after tellurium coprecipitation 539
– detmn. (simult.) of metal ions in river – by voltammetry 658
– remobilization of heavy metals from river – through organic complexing agents 658
Seed oils
– HPLC of triglycerides of Flacouriaceae – containing cyclopentenyl fatty acids 577
Selectivity
– in multicomponent analysis 639
Selenate
– detmn. of selenite and – in water by HPLC 496
– sepn. of –, selenite, tellurate and tellurite by isotachophoresis 214
Selenite
– detmn. of – and selenate in water by HPLC 496
– sepn. of selenate, –, tellurate and tellurite by isotachophoresis 214
Selenium
– detmn. of – and tellurium in copper concentrates by flame AAS 478
– detmn. of – and tellurium in silver-gold alloys, alloys by polarography 420
– detmn. of – by graphite furnace AAS 646
– detmn. of – by hydride generation AAS, use of Fe(III) for elimination of Ni interference 645
– detmn. of – by low-temperature extr. -luminescence 646
– detmn. of – by spectrometry, effect of apparative factors on hydride generation 496
– detmn. of – in coals by graphite furnace AAS 325
– detmn. of – in feeds, decomposition methods 381
– detmn. of – in sediments by fluorimetry, DAN after tellurium coprecipitation 539
– detmn. of volatile hydrides of phosphorus, arsenic, antimony, – and tin by photochemical reaction/light-scattering 645
– kinetic detmn. of – in biological materials 233
– NAA of high purity – with sepn. of the matrix by hexene-1 648
– transition metal interferences in hydride generation spectrometry, atomic absorption of arsenic and – 484
Selenocyanate
– detmn. of thiocyanate and – by AAS, extr. as dipyridyl-pyridylhydrazones complexes 214
Semen
– detmn. of prostaglandins in – by GC with ECD 592
Semiconductors
– detmn. of nitrogen in metals and – by NAA 501
Serine proteases
– detmn. of – in biological fluids by electrophoresis, gel, detection by chromogenic substrate autography 529
Serotonin
– detmn. of catecholamines, – and metabolites in rat brain by HPLC with fluorometric and electrochem. detection 590
Sewage sludges
– detmn. of traces of heavy metals in –, soils and related environmental materials with a thermal ionization quadrupol mass spectrometer 24
Siderophores
– salicylate response of ferrimycobactin membrane electrodes, – 572
Silanol groups
– detmn. of – on packings for chromatography, HPLC by isotopic exchange 486
Silica
– detmn. of dissolved – in natural water by spectrophotometry as silicomolybdate 512
– HPLC of alkylbiphenyls on – 405
– sepn. of diastereoisomers by chromatography, thin-layer on –, solvent selectivity effects 407
– with chemically inoculated hydroxamic acid as a new adsorbens 490
Silica gels
– effects of hydrothermal treatments in the presence of salts on the chromatographic properties of – 633
– sepn. of anions on – coated with cross-linked poly-dibenzo-18-crown-6 126

Silica surfaces
– NMR spectrometry of chemically and physically altered porous – under GC conditions 407
Silicate materials
– detmn. of potassium in – by NAA 330
Silicate rocks
– detmn. of germanium in – and sulfide ores by hydride generation AAS 331
– detmn. of samarium, europium, ytterbium and lutetium in – by AES 509
– thermochem. decomposition of – using NH_4F 509
Silicates
– detmn. of iron(II) and iron(III) in – by spectrophotometry 510
Silicon
– anal. of thin film of amorphous – by organic elemental analyzer 323
– detmn. of – by fluorimetry/FIA 212
– detmn. of – in gallium arsenide by spectrophotometry and polarography 272
– detmn. of – in niobium by MS after chlorinating gaseous extr. 321
– detmn. of – in water and steel by polarography 513
– detmn. of phosphorus and – by chromatography, HPLC with ICP detector 203
– detmn. of phosphorus in – using two-laser thermolense 503
– detmn. of – vaporized from different surfaces by electrothermal AAS 643
– enhancement effects in detmn. of – in urine by DCP-AES/AAS 589
– Gmelin handbook, –, system Si-C, SiC 197
– reactive gas extr. to atomic adsorption detmn. of – in pure indium 502
Silicon dioxide
– detmn. of silver in – by spectrometry, Rutherford backscattering spectrometry 503
Silicone phases
– charact. of – by alkaline hydrolysis and capillary GC 205
Silicon nitride
– detmn. of impurities in – by X-ray emission anal. 424
Silver
– detmn. of – and cobalt by kinetic spectrophotometry, o-dianisidine-persulfate reaction 316
– detmn. of – by potentiometry using a graphite electrode 410
– detmn. of – by thermometry in presence of nonferrous metals and iron 494
– detmn. of copper, – and palladium by AES after preconc. on Spheronthiol 410
– detmn. of – in pharmaceutical products by catalytic titration, inhibition of $SbCl_6^-/I^-$ reaction 229
– detmn. of – in silicon dioxide by spectrometry, Rutherford backscattering spectrometry 503
– detmn. of – in silver coins by NAA 323
– detmn. of – in soil standard materials by NAA 578
– detmn. of – in technical solutions by ionometric method 505
– detmn. of – with 4-(3,5-dibromo-2-pyridylazo) -N,N-diethylaniline by spectrophotometry 640
– enrichment of gold and – on a chelate sorbent POLYORGS XI-N 320
– photochromism of – and mercury(II) dithizonates 485
– platinum gauze activated by hydrogen for adsorption sepn. of – traces in copper metal 411
– sorption of gold, – and mercury on cellulose 618
– sorption of –, gold and palladium with polythioether foam 411
Silver(I)
– sepn. of – from plating solutions by extr. with 2,4-dihydroxyacetophenone thiosemicarbazone 647
– sepn. of – with 2-mercaptobenzothiazole by extr. 410
Silver coins
– detmn. of silver in – by NAA 323
Silver-copper coins
– detmn. of elements in – by AAS 323
Silver-gold alloys
– detmn. of selenium and tellurium in –, alloys by polarography 420
Silver grains
– detmn. of – in autoradiograms of biological materials using 5-(4-dimethylamino-benzylidene)rhodanine 520
Silylating agent
– trimethylsilylacetylacetone as an effective – for chromatography, gas 406
Simplex algorithm
– an improved – for dealing with boundary conditions 640
Simplex data reduction
– for non-homogeneous variance and non-linear equations in chromatography, HPLC 410
Simplex optimization
– rotation in – 640
Single crystals
– detmn. of chromium in Bi/Si – and in raw materials 504
β-Sitosterol
– detmn. of benzothiazoles, – leached from disposable syringes by TLC 652
Skin
– detmn. of amines, polycyclic aromatic in – by HPLC with electrochem. detection 528
Slags
– detmn. of lime in – by automatic anal. 424
– detmn. of sodium and potassium in blast furnace – by spectrometry 692
– detmn. of sulfur anions in leaching solutions of – by ion-exchange chromatography 647
Sludge
– detmn. of hydrocarbons, halogenated volatile and hydrocarbons, aromatic volatile in soils and – by head-space-GC 531
Smoke dust
– phenols in – for foods, detection and ident., book 564
Sodium
– detmn. of – and potassium in blast furnace slags by spectrometry 692
– detmn. of manganese and – in geological materials by NAA 510
– measurements of – ion activity in unbuffered aqueous solutions 210
Sodium alkoxyaluminohydrides
– detmn. of active hydrogen in – by reaction GC 216
Sodium azide
– detmn. of – with $Ce(NH_4)_2(NO_3)_6$ by spectrophotometry. improved conditions 213
Sodium borohydride
– detmn. of metals in – by spectrometry, complexes with diethyldithiocarbamate and oxine 323
Sodium dialkyldithiocarbamates
– anal. of – by reversed-phase ion-interaction chromatography 222
Sodium monofluorophosphate
– detmn. of potassium nitrate and – in dentifrices by LC 229
Sodium octyl sulfate
– adsorption of surfactants, anionic, – on octadecyl bonded phase in chromatography, ion-pair 327
Sodium salts
– votalization of some – in spectrometry, atomic absorption, electrothermal 567
Sodium tetraphenyloborate
– estim. of alkaline earth metals by titrations, sequential with – 616
Soft drinks
– detmn. of ascorbic acid in – and fruit juices by UV spectrometry 228
Soil analysis
– , optical electron and X-ray spectrometry, review 578
Soil extracts
– detmn. of aluminum in – by carbon arc emission spectrometry 579
Soil lime
– detmn. of copper, lead, cadmium and zinc in – by polarography 578
Soils
– anal. of triazine herbicides in – by GC and HPLC 377
– anal. of weathered petroleum sludge in – in HPLC and GC 506
– detmn. of 2,4-dichlorophenoxyacetic acid in – by GC 579
– detmn. of amino nitrogen in – by reversed-phase HPLC 578
– detmn. of ammonia in sediments and – with ISE 337
– detmn. of anions, inorganic in water extracts of plants and – by ion chromatography 337
– detmn. of boron in – by sequential scanning ICP-AES using SLIM 534
– detmn. of cadmium and molybdenum in – by AAS or ICP-spectrometry 337
– detmn. of cadmium in $CaCl_2$ extr. of – by atom- trapping AAS 578
– detmn. of hydrocarbons, halogenated volatile and hydrocarbons, aromatic volatile in – and sludge by head-space-GC 531
– detmn. of lead and cadmium in – by AAS, direct pipetting of slurries on electrothermal atomizer 337
– detmn. of nitrogen-containing heterocyclic pesticides in plants, – and natural water by voltammetry 585
– detmn. of traces of heavy metals in sewage sludges, – and related environmental materials with a thermal ionization quadrupol mass spectrometer 24
– detmn. of triallate residues in – by HPLC 579
– evaluation of ammonia/calcium exchange curves for – 337
– kinetic detmn. of cobalt in – with pyridine-2-aldehyde 2-pyridylhydrazone 646
– movement of some carbamoyl group containing pesticides in – 579
Soil standard materials
– detmn. of silver in – by NAA 578
Solders, lead- and tin-base
– detmn. of Ag, Bi, Cd, Cu, Fe, Ni and Zn in – and alloys, white-metal by AAS 321
Solids
– detmn. of copper in – and ores by laser ablation plasma emission spectrometry 420
– economy of water and – at refuse dumps, book 303
Solid samples
– granulometry and prep. of –, review 424
Solvation
– effect of – on reactions between aluminum, gallium, indium, zinc, cadmium and azo compounds 212
Solvents
– detmn. of – in polymeric additives by thermogravimetry 508
Somatotropin
– high-performance size-exclusion chromatography of bovine – 525
Sorbic acid
– detmn. of – and benzoic acid in sugar products by extr. spectrophotometry 581

Sorbitol
– detmn. of fructose and – in diet foots by enzymatic method or HPLC 431
Sorghum grains
– detmn. of amino acids in –, feeds by amino acid analyzer 337
Soya proteins
– ident. of – in meat by pyrolysis/HRGC 227
Speciation
– studies by flow-injection analysis 209
Spectinomycin
– derivatization of amines, sec. with 2-naphthalenesulfonyl chloride for HPLC anal. of – 231
Spectra, IR
– charact. of oils, lubricants and petroleum products by –, book 198
– dynamic interpretation of – 485
Spectral atlas
– high resolution – of nitrogen dioxide 559–597 nm 564
Spectroelectrochemistry
– anal. applications of absorption –, at grazing incidence 207
Spectrometer, ICP
– characterization of – with coupling by optical quartz fibre 83
Spectrometer, UV VIS
– for detection in chromatography, HPLC 308
Spectrometry
– , variable digital filter for smoothing of noisy spectra 639
Spectrometry, atomic
– analytical –, 25 years 484
– combination of flow-injection techniques with – in agricultural analysis and environmental analysis 576
– improved hollow-cathode lamps for –, book 483
Spectrometry, atomic absorption
– abuse of analyte addition technique in – 95
– autostandby switch for the Perkin-Elmer model 5000 – 200
– carbon-oxygen reactions in graphite furnace – 567
– comparison of curve fitting algorithms for flame – 403
– continuum-source – 567
– detmn. of cadmium in blood by –, furnace atomic non-thermal excitation 589
– detmn. of copper and manganese by –, absolute mass detmn. with discrete nebulisation 305
– detmn. of detection limits in graphite furnace –, ensemble summation 255
– detmn. of lead in gasoline by flow-injection – 573
– detmn. of trace metals, cadmium by Zeeman – 404
– , evaluation of a continuous variable impacter for use with flame atomisation 402
– extended calibration for flow-injection – 484
– fast response system for – 305
– flameless –, new developments for HGA graphics software 403
– flameless –, optimization with Smith/Hieftje correction 403
– flow injection –, kinetics of instrument response 402
– for solid materials 631
– , hydride technique, matrix modification 631
– , improved hydride generation 631
– improvement of a pneumatic nebuliser for – 402
– , interference in graphite furnace continuum background correction 403
– , minimization of errors, systematic, applications 484
– multielement analysis by –, graphite probe electrothermal atomisation 305
– signal to noise ratios for flow injection – 402
Spectrometry, atomic absorption
– spectrometry, MIP and –, principle and applications 402
– transition metal interferences in hydride generation – of arsenic and selenium 484
Spectrometry, atomic absorption, electrothermal
– , a survey of applications of STPF and Zeeman correction 200
– atomization of substances from the graphite furnace surface in – 403
– detmn. of chromium in urine by –, background correction 589
– effect of platinum on the atomization of different metals in – 567
– low-resolution monochromator system for – 403
– optimization of temperature conditions for the graphite tube furnace-platform system in – 200
– votalization of some sodium salts in – 567
Spectrometry, atomic emission
– influence of halogen and sulfur atoms on the intensity of impurity element lines in – of powdered materials 504
Spectrometry, atomic emission, electrothermal
– constant-temperature atomiser/computer controlled Échelle spectrometer system for – 566
Spectrometry, atomic fluorescence
– a way to an absolute method of – 305
– direct current plasma as excitation source for flame – 404
Spectrometry, candoluminescence
– detmn. of tellurium and lead by – 496
Spectrometry, dual optic simultaneous
– (DOSS) for measurement of background intensities in spectrometry, ICP-AES 88
Spectrometry, emission
– , line number to line intensity relationship 631
– , theta pinch discharge 631
Spectrometry, flame emission
– use of sample additives in – 566
Spectrometry, FT-IR
– chromatography, countercurrent/–, study of interfacing 310
– chromatography, supercritical fluid/–, automatic diffuse reflectance interface 570
– , combined with diffuse reflectance 485
– error estim. in – difference on polymer films 258
– new sampling technique for reversed-phase chromatography, HPLC/– 306
– , soft ware for vector qualitative anal. 485
Spectrometry, ICP
– anal. of nickel alloys by – 423
– , cloud chambers for use in inductively coupled plasma nebulisation systems 402
– elemental analysis of water samples by –, problems 558
– , graphite rod vaporisation for sample introduction 200
– , line intensity ratio fluctuations 566
Spectrometry, ICP-AES
– choice of solvents of organic samples for – 200
– spectrometry, dual optic simultaneous (DOSS) for measurement of background intensities in – 88
– , study of molecular fragmentation 631
– with electrothermal vaporization 566
Spectrometry, ICP-OES
– , pattern recognition and factor anal. 638
Spectrometry, impedance
– in electrochemistry 573
Spectrometry, ion mobility
– in carbon dioxide 566
Spectrometry, IR
– , cryolect-GC-FT-IR technique 485
– , improved sensitivity by aid reactions 485
– in anal. of feeds 336
Spectrometry, MIP
– and spectrometry, atomic absorption, principle and applications 402
Spectrometry, NIR reflectance
– , normalized distances 567
– , spectral structure, regression models 485
Spectrometry, NMR
– applications of dynamic – to organic chemistry, stereochemical analysis, book 629
– handbook of tritium – and applications 629
– ident. of bile acids and 5β-cholanoic acid by two-dimensional – 440
Spectrometry, NMR, ^{13}C
– clustering, hierarchical in – 209
– tautomery and acid-base conversion in monoazo derivatives of chromotropic acid, – 494
Spectrometry, photoacoustic
– investigation of pigmented lacquer films by – 676
Spectrometry, photothermal deflection
– with pulsed laser, error reduction 566
Spectrometry, pulsed photothermal refraction
– , elliptic Gaussian excitation beam 631
Spectrometry, Raman
– surface-enhanced – with silver particles on stochastic-post substrates 485
Spectrometry, supersonic jet
– , sample introduction by supercritical fluid 566
Spectrometry, X-ray
– anal. of mixtures of minerals by – 509
– anal. of nickel alloys by –, inter-element correction coefficients 423
– N-dependence method for quant. – electron probe 306
– reciprocal evaluation of matrix correction in – 686
– theory and practice in – 568
– , use of K and L_{III} absorption edges 632
Spectrometry, X-ray fluorescence
– detmn. of elements in biological materials –, sample prep. by carbonisation technique 340
– detmn. of trace elements by –, synchrotron radiation 632
– in electron microscope, scanning 404
– , irradiation and detection angles 306
– , particle size effects 306
– , preconc. of traces 404
– sample preparation for – 306
– , sample preparation methods 404
– , synchroton radiation, X-ray reflector as sample support 568
– with correction for perturbation of elements 305
Spectrophotometry
– non-linear multiparameter estim. in – 567
– , picosecond pump-probe measurement 631
– prediction of conditions for solvent extr. – of elements 403
– study of biacetyl(2-pyridyl)hydrazone thiosemicarbazone as reagent for – 493
Spectrophotometry, thermal lens
– pulsed laser – for detection in LC 566
Spectroscopy
– high-resolution – of transient molecules, book 304
Spectroscopy, dispersion
– by liquid thin films with scanning diode array spectrometer 544
Spheronthiol
– detmn. of copper, silver and palladium by AES after preconc. on – 410
Spinach
– detmn. of lead in – by AAS, slurry technique 225
Spiramycin
– detmn. of – in blood plasma by automated HPLC 246
Spironolactone
– sepn. of – and metabolites in blood plasma by HPLC/UV detection 443

SQ 27,519
– detmn. of pharmaceutical products, – in blood serum by capillary GC 244
Stability constants
– MINIGLASS, an interactive program for – of metal/ligand complexes 639
Stack gas
– detmn. of sulfur dioxide in –, continuous analyzer 426
Standard addition
– precision in – techniques 263
Standard reference materials
– estim. of relative interpackage standard deviations for – of biological materials 520
– new certified – of ferrous metallurgy 502
Standards
– potassium sulfosalicylate as – in alkalimetry 493
Starch
– anal. of carbohydrates in – hydrolysates by reversed-phase HPLC 581
Stationary phases
– condensation of hydroxyl-terminated – in capillary chromatography, gas 205
Statistical methods
– in water analysis, book 197
Stearic acid
– sepn. of oleic acid, – mixtures by extr. with a supercritical solvent (CO_2) 217
Steel
– anal. of zinc-nickel alloys electroplated – sheet by a low discharge emission spectrometry 421
– detmn. of arsenic, antimony and bismuth in – by hydride generation ICP-AES 648
– detmn. of bismuth in –, alloys and waste water with 2-(4,5-methylthiazolyl-2-azo)-5-diethylaminophenol by spectrophotometry 322
– detmn. of boron in – and nickel alloys by spectrophotometry, extr. with β-diols 321
– detmn. of calcium in – by carbon-furnace AAS and AES 321
– detmn. of chromium(VI) in – by extr. with 1-naphthylmethyltriphenylphosphonium cation and spectrophotometry 322
– detmn. of cobalt in –, alloys and minerals by spectrophotometric titration 502
– detmn. of deoxidants influencing the morphology of nonmetallic inclusions in – 420
– detmn. of iron(III) and nickel in – and alloys 319
– detmn. of molybdenum in iron and – by stripping voltammetry 322
– detmn. of nickel in – with pyrrole-2-thiocarboxamide by gravimetry 215
– detmn. of silicon in water and – by polarography 513
– detmn. of sulfides in – by potentiometric electrolysis methods 420
– detmn. of titanium in – with diantipyrylmethane by spectrophotometry 322
– detmn. of titanium(IV) with Malachite Green and p-chloromandelic acid in mild – 419
– detmn. of tungsten in – as thiocyanate-propericiazine complex by extr.-spectrophotometry 649
– detmn. of vanadium in – with 2,2′-dipyridyl-2-quinolyl-hydrazone by extr.-spectrophotometry 322
– detmn. of vanadium traces in – by catalytic thermometry, gallic acid/bromate reaction 648
– detmn. of vanadium(V) and molybdenum(VI) in alloys and – with thymolphthalexon by spectrophotometry 322
– detmn. of zirconium and hafnium in alloyed – by sorption AES 419
– hydrodynamic injection in flow injection analysis of chromium in – 649
Stereochemical analysis
– applications of dynamic spectrometry, NMR to organic chemistry, –, book 629
Stereoisomers
– detmn. of – by circular dichroism 632
Steroid analysis
– advances in – '84, book 303
Steroid metabolites
– detmn. of neutral – in urine by capillary GC 440
Steroids
– anal. of – by capillary chromatography, gas, optimization 407
– detection of anabolics, – in urine by capillary GC/MS 347
Steroids, adrenal
– detmn. of – in blood serum by capillary GC/MS 238
Sterols
– sepn. of bile acids and – by HPLC with microbore column 347
Stomach contents
– detection of poisons, non-drug in – with various color reagent 596
– detmn. of strychnine in – by LC 349
Strawberries
– detmn. of chloroxuron in – by LC with ECD 587
Streptomycin
– detmn. of – in blood serum by HPLC 445
Strontium
– detmn. of – in biological materials by proton activation anal. and isotope dilution 340
– sepn. of cesium, – and barium by extr. as dicarbollylcobaltate-EDTA-PEG complex 211
Strychnine
– detmn. of – in stomach contents by LC 349
Substoichiometric separation
– theory of two-step – in radiometry 633
Succinylcholine chloride
– NMR spectroscopic assay for – in injections 516
Succinyltrialanyl-p-nitroanalide-hydrolyzing enzyme
– phosphorimetric microassay for – in blood serum 530
Sucrose
– detmn. of – in foods by chemiluminescecne FIA 581
– detmn. of – in presence of glucose in a flow-injection system with immobilized multi-enzyme 417
Sugar
– detmn. of sulfite traces in – with crystal violet by spectrophotometry 431
Sugar alcohols
– detmn. of – as acetyl derivatives by GC 218
Sugar products
– detmn. of sorbic acid and benzoic acid in – by extr. spectrophotometry 581
Sugars
– detmn. of – by potentiometric flow-injection using a metallic copper electrode 217
– detmn. of soluble – in plant extracts by enzymatic anal. 576
– validitation of derivatized multicomponent analysis by chromatography, gas of – 570
Sulbactam
– detmn. of clavulanic acid and – in blood plasma and urine by HPLC 246
Sulbenicillin
– detmn. of carbenicillin, ticarcillin and – in blood serum and urine by HPLC 527
Sulfa drugs
– photodegradation of – by fluorescent light 231
Sulfamethazine
– detmn. of – in swine meat by HPLC 227
Sulfaquinoxaline
– detmn. of warfarin and – in rodenticides by LC 586
Sulfate
– and phosphate electrodes, ion-selective, review 572
Sulfate
– detmn. of – in water by hydrolytic potentiometric titration 334
– detmn. of poly(ethylene glycols), barium and – ions using ion-selective electrode 507
– detmn. of sub ppm – in water by non-suppressed LC 658
Sulfate electrode
– preliminary studies of a bacterial – 645
Sulfates
– detmn. of – in ferric oxides by LC and titration 504
Sulfide minerals
– acid dissolution of – 331
Sulfide ores
– detmn. of germanium in silicate rocks and – by hydride generation AAS 331
– detmn. of rhodium and ruthenium in – by extr. and voltammetry 510
Sulfides
– detmn. of – and thiols in petroleum systems by automated potentiometric titration 573
– detmn. of – in steel by potentiometric electrolysis methods 420
– retention indices of thiols and – in capillary GC 416
– titration of – and thiols in natural water 657
Sulfides, aromatic
– sepn. of – by ligand-exchange GC 416
Sulfite
– detection of – in meat with malachite green, selectivity of the test 226
– detmn. of – and sulfite oxidase using FIA 496
– detmn. of – in flue gases by enzymatic spectrophotometry 426
– detmn. of – in rain water by ion chromatography 657
– detmn. of – traces in sugar with crystal violet by spectrophotometry 431
– ident. of – on foods, test strip 430
– potentiometric titration between – and nitrite ions 412
Sulfite oxidase
– detmn. of sulfite and – using FIA 496
Sulfolane
– detmn. of – in petrochemical raffinate by GC 221
Sulfolipids
– detection of – with Azure A by TLC 237
Sulfur
– detmn. of elemental – in crude oils and petroleum fractions by potentiometric titration 325
– detmn. of elemental – in jet fuels by differential pulse polarography 326
– detmn. of – in cokes by X-ray fluorescence anal. 325
– detmn. of – in fly ashes by proton activation anal. 506
– detmn. of – in nickel alloys with dimethyl-p-phenylenediamine by spectrophotometry 423
– detmn. of – in pyrite by potentiometric titration 331
– ident. of organic and pyrolytic – in coals and oil shale by thermogravimetry and gas anal. 325
Sulfur anions
– detmn. of – in leaching solutions of slags by ion-exchange chromatography 647
Sulfur compounds
– anal. of – in gas, natural by GC 333
– detection of – in naphtha and gasoline with gas electrode detector 573
– detection of reduced – in chromatography, gas using ozone chemiluminescence 313
Sulfur dioxide
– detmn. of – in air, morpholine as absorbing reagent 656
– detmn. of – in air, porous membrane diffusion scrubber for sampling 656

Sulfur dioxide
– detmn. of – in stack gas, continuous analyzer 426
– detmn. of – in wine by flow injection anal. 496
Sulfurorgano compounds
– anal. of mixtures of hydrocarbons and – by EI and pulsed positive negative ion CI chromatography, gas/mass spectrometry 206
– preconc. of volatile – in air on porous polymers 511
Sulfurtransferases
– chromogenic substrates for – 243
Supports, solid
– quantitation of amino groups on –, gels by spectrofluorimetry 652
Surface analysis
– by laser desorption of neutral molecules by mass spectrometry, FT 201
Surfactants
– anal. of – by mass spectrometry, soft ionization techniques 222
– anal. of cationic and amphoteric – by liquid ionization MS 222
– detmn. of ampholytic and cationic – by potentiometric titrations 222
– detmn. of – by alternating-current polarography 575
– detmn. of – by electrodes, ion-selective 508
– detmn. of critical micelle concentration of – with N-phenyl -1-naphthylamine by fluorimetry 575
– detmn. of traces of –, tensammetry after preconc. at the HMDE 222
– synth. and anal. properties of the polymerized – PROSA 222
Surfactants, anionic
– adsorption of –, sodium octyl sulfate on octadecyl bonded phase in chromatography, ion-pair 327
– detmn. of aliphatic – by ion chromatography 654
– detmn. of – by ion chromatography 223
– detmn. of – with ^{131}I-Rose Bengal by two-phase titration 653
– detmn. of – with cationic dyes by spectrophotometry 576
Surfactants, nonionic
– detmn. of – by flow injection anal. using ion-pair extr. 575
Surgical materials
– detmn. of formaldehyde in – by GC 589
Sweeps
– anal. of – using a cuprous sulfide collecting system 321
Sweeteners
– anal. of aspartame in – by HPLC 226
Synovial fluid
– detmn. of diclofenac in – by HPLC 244

T

Tablets
– anal. of analgesics in – by HPTLC 433
Tabun
– detmn. of impurities in – by capillary GC 224
Tannin
– detmn. of phenolic groups in phlobaphene and – of pine bark by conductometry 577
Tantalum
– detmn. of niobium in presence of – by ceremetry 318
TAR-nitro
– as new spectrophotometric reagent for nickel 414
Tartaric acid
– detmn. of –, citric acid and total carbonate in pharmaceutical products by potentiometric titration 515
Technetium
– detmn. of – in nuclear fuels with variamine blue by kinetic spectrophotometry 425
– detmn. of – with rubeanic acid by spectrophotometry 497
– extr. of molybdenum, tungsten and – with polyurethane foam 637
– sepn. of nitric acid, – and palladium from nuclear waste with bidentate carbamoylphosphonates by extr. 425
Technical solutions
– detmn. of antimony and arsenic in –, factors affecting graphite furnace AAS 505
– detmn. of silver in – by ionometric method 505
Tellurate
– sepn. of selenate, selenite, – and tellurite by isotachophoresis 214
Tellurite
– sepn. of selenate, selenite, tellurate and – by isotachophoresis 214
Tellurium
– detmn. of – and lead by spectrometry, candoluminescence 496
– detmn. of cadmium and – (simult.) in cadmium telluride films by polarography 424
– detmn. of selenium and – in copper concentrates by flame AAS 478
– detmn. of selenium and – in silver-gold alloys, alloys by polarography 420
Temperature gradients
– in chromatography, gas, review 570
Tenax-GC
– artifacts using – for gas sampling 652
Teniposide
– detmn. of – in blood serum by HPLC with electrochem. detection 594
Tenoxicam
– detmn. of – in blood plasma by HPLC 593
Terbium
– detmn. of – and dysprosium as complex compounds by luminescence method 642
Terbufos
– detmn. of acephate, methamidophos and – in tobacco by GC 394
Testosterone
– anal. of estradiol esters, – and progesterone in oily injections 435
Testosterone enanthate benzylic acid hydrazone
– detmn. of estradiol dienanthate, estradiol 3-benzoate and – by HPLC 232
Testosterone propionate
– detmn. of –, progesterone and estriol benzoate in bovine implants by HPLC 435
Tetraalkylammonium tetrafluoroborates
– as stationary phases for chromatography, gas 205
Tetraazamacrocycles
– reactions between copper and 14-membered – in anal. of alloys 420
Tetrachlorodibenzo-p-dioxin
– detmn. of – in chlorophenols and related products 603
Tetrachloroethylene
– detmn. of – in water using detector tube 514
Tetrachloromethane
– detmn. of –, chloroform, 1,2-dichloroethane and benzene in germanium tetrachloride by GC 504
Tetracycline
– sepn. of elements in fission products by extraction with – 425
Tetracyclines
– detmn. of – in meat by HPLC 582
– sepn. of – by HPLC 434
Tetrahydrocannabinol
– detmn. of – in cannabis by GC/FTIR 435
Tetrahydrocarbazole
– stripping voltammetry of – 435
Tetrahydrofurfurylxanthate
– detmn. of cobalt, nickel and iridium with – by spectrophotometry after coprecipitation with naphthalene 215
Tetraiodofluorescein
– detmn. of iron(II) with 1,10-phenantholine and – by spectrophotometry 413
Tetraphenylborate
– detmn. of – with malachite green by spectrophotometry 642
Tetraphenyllead
– detmn. of – and hexaphenyldilead by chromatography, HPLC, interface for ICP 203
Tetraphenylpyridinium
– detmn. of niobium with – perchlorate and thiocyanate by extr.-spectrophotometry 318
Tetraphenylpyridinium perchlorate
– detmn. of gallium with – by extr. spectrophotometry 643
Tetrazolium salts
– detmn. of rhenium in molybdenum concentrates with – by spectrophotometry 504
Textiles
– ident. of dyes on – by derivative spectrophotometry 329
– ident. of natural red dyes in old Indian – by TLC 329
Thallium
– detmn. of copper, lead, –, cadmium and zinc traces in aluminum by anodic stripping voltammetry 648
– detmn. of –, electrochemical masking of large amounts of copper in DPASV 212
– detmn. of – in city waste incineration fly ashes by Zeeman AAS 333
– detmn. of –, luminescence properties of thallium crystallophosphors 212
– sepn. of gallium, indium and – by extr. with Amberlite or Aliquat 643
Thallium(III)
– detmn. of – by use of a mercury reductor 212
– studies with dithizone, interaction of – in organic solvents 493
Thallium crystallophosphors
– detmn. of thallium, luminescence properties of – 212
Theophylline
– detmn. of – in blood serum with Seralyzer 595
– detmn. of – in saliva by fluorescence polarization immunoassay 446
Thermal analysis
– of elastomers 653
Thermochromism
– detmn. of amines and ammonium salts, quaternary in multi-compound mixtures by extraction-spectrophotometry and – of ion-association complexes 484
Thermolens
– detmn. of phosphorus in silicon using two-laser – 503
Thermometric titration
– use of acetals and cyclic ethers as indicators in – 493
Thermometry
– detmn. of silver by – in presence of nonferrous metals and iron 494
Thiabendazole
– detmn. of – in yams by GC/ECD 587
Thiamine
– detmn. of – by GC, pre-extr. internal standards 227
– detmn. of – in infant formulas by LC 227
Thiamine diphosphate
– detmn. of – in erythrocytes by HPLC 525
1-(2'-Thiazolylazo)-2-naphthol
– detmn. of thorium(IV) with – by spectrophotometry 317
Thin films
– spectroscopy, dispersion by liquid – with scanning diode array spectrometer 544

Thioacetamide
– sepn. of phenobarbitone, thiourea and – by HPLC 516
Thiobarbituric acid
– detmn. of barbituric acid and – by spectrophotometry 230
Thiocyanate
– detmn. of – and selenocyanate by AAS, extr. as dipyridyl-pyridylhydrazones complexes 214
Thiodiglycol
– detmn. of – in urine by GC/MS, metabolite of mustard gas 448
Thioglycolic acid
– detmn. of iron in brass with – by spectrophotometry 502
Thiols
– assay of – by fluorimetry, new reagent 415
– detmn. of – and disulfides by photometric titration 416
– detmn. of sulfides and – in petroleum systems by automated potentiometric titration 573
– electrochem. study of – and disulfides using modified electrodes 415
– retention indices of – and sulfides in capillary GC 416
– titration of sulfides and – in natural water 657
(Z)-2-thiophenaldehyde-2-pyridylhydrazone
– detmn. of copper in biological tissues with – by spectrophotometry 588
Thioridazine 5-sulfoxide
– detmn. of – diastereomers in blood serum and urine by TLC, HPLC and MS 348
Thiosemicarbazones
– detmn. of – with copper(II) by titration using Cu-selective electrode 494
Thiosulfate
– detmn. of – traces in aqueous samples by nephelometry 645
Thiourea
– influence of – on the cation exchange behavior of elements in dilute nitric and hydrochloric acid 568
– sepn. of phenobarbitone, – and thioacetamide by HPLC 516
Thorium
– detmn. of – traces by polarography 643
– detmn. of uranium and – traces in aluminum 421
– Gmelin handbook, –, compounds with S, Se, Te and B 483
Thorium(IV)
– detmn. of – with 1-(2′-thiazolylazo)-2-naphthol by spectrophotometry 317
Thromboxane B_2
– detmn. of – in urine by chromatography, GLC/NICI-MS 446
Thymidines
– detmn. of – by GC after pentafluorobenzylation 529
Thymine
– detmn. of – and 5-bromouracil in DNA-hydrolysates by GC/MS/SIM 441
Thymolphthalexon
– detmn. of vanadium(V) and molybdenum(VI) in alloys and steel with – by spectrophotometry 322
Thyroxine
– detmn. of – in blood by fluorescent enzyme immunoassay 448
Ticarcillin
– detmn. of carbenicillin, – and sulbenicillin in blood serum and urine by HPLC 527
Tin
– detmn. of – and lead by differential pulse polarography 212
– detmn. of – in alloys, non-ferrous by chelatometric titration with HEDTA 422
– detmn. of – in alloys with cinnamoylphenylhydroxylamine by gravimetry 422
Tin
– detmn. of inorganic – and tinorgano compounds by graphite furnace AAS with a new matrix modifier 644
– detmn. of – in paints by inverted-flame method 329
– detmn. of – in rocks and minerals by chelate extr. AAS 509
– detmn. of – in rocks by electrothermal AAS, effect of organic matrices 331
– detmn. of iridium traces in special purity – by laser atomic ionization 419
– detmn. of tinalkyl compounds and inorganic – in water by AAS 659
– detmn. of volatile hydrides of phosphorus, arsenic, antimony, selenium and – by photochemical reaction/light-scattering 645
– sepn. of – and indium by extr. 412
Tin(II)
– detmn. of – in glass by spectrophotometry 424
Tin(IV)
– detmn. of – with PAR by spectrophotometry, after extr. with chlorophenyl-furohydroxamic acid 213
Tinalkyl compounds
– detmn. of – and inorganic tin in water by AAS 659
Tinorgano compounds
– detmn. of inorganic tin and – by graphite furnace AAS with a new matrix modifier 644
Tiron
– study of iron(III) complexes with – 646
Tissues
– assay for proteolytic activity in – with fluorescein-labeled gelatin/Sepharose 4B 243
– detection of proteases in cells and – by HPLC 243
– detmn. of dihydrofolate reductase activity in – by pH-Stat titration 241
– detmn. of methylmercury and ethylmercury in blood and – by capillary GC with ECD 447
– sepn. of fatty acids in – by HPLC 439
Tissues, animal
– anal. of pyridine dinucleotides in – by HPLC 240
– detmn. of adenosine and S-adenosyl derivatives of amino acids, sulfur in – by HPLC 239
– detmn. of histamine and N^{τ}-methylhistamine in – by HPLC with electrochem. detection 234
– detmn. of vitamin K_1 in – by HPLC 525
Titanium
– anal. of – and titanium alloys, comparison of methods 503
– detmn. of – in steel with diantipyrylmethane by spectrophotometry 322
– detmn. of nitrogen in niobium, – and alloys by biamperometric titration 422
Titanium(III)
– detmn. of iron(III) with – by coulometric titration, stabilisation of Ti(III) with glycerol 208
Titanium(IV)
– detmn. of – with alizarin and fluoride by extr. and spectrophotometry 644
– detmn. of – with Malachite Green and p-chloromandelic acid in mild steel 419
Titanium alloys
– anal. of titanium and –, comparison of methods 503
Titrations
– examination of errors of symmetric – 409
– Kalman filter applied to setpoint control in continuous – 210
– use of haematoxylin as adsorption indicator in visual – 493
Titrations, non-aqueous
– indicators for – with perchloric acid 493
Titrations, sequential
– estim. of alkaline earth metals by – with sodium tetraphenyloborate 616
Tobacco
– charact. of carbohydrates in – leaf material by pyrolysis 584
– detmn. of acephate, methamidophos and terbufos in – by GC 394
– sepn. of enzymes in – plants by chromatofocusing 577
Tobacco smoke
– anal. of – and cigarette smoke by NAA 584
– detmn. of N-nitrosamines in – by GC/MS 584
α-Tocopherol
– detmn. of retinol and – in feeds by LC, cartridge extr. 337
Tocopherols
– detmn. of – in oils, vegetable by voltammetry and HPLC 582
Toluene
– detmn. of methyl t-butyl ether, benzene, – and ethanol in gasoline by LC 326
Toluidine, m-
– detmn. of – in photographic materials by GLC 651
Tomatoes
– detmn. of 1-aminocyclopropane-1-carboxylic acid in – by isotope dilution MS 225
Toxicity, microbial
– investigation of – of chlorophenols by bioluminescence of bacteria 136
Toxicological substances
– anal. of – by chromatography, liquid, recovery of mutagenic activity on various adsorbents 595
Toxicology
– , book 400
Toxic organic compounds
– detmn. of chemical classes of – by mass spectrometry 632
Trace components
– detmn. of – in air by GC, multistage open-tube trap for cryogenic collection 332
Trace elements
– anal. of – in reactor coolant by HPLC 425
– anal. of –, modified insert for pressure decomposition bombs 297
– detmn. of – by polarography, pulse, homogeneous catalytic systems 489
– detmn. of – by spectrometry, X-ray fluorescence, synchrotron radiation 632
– detmn. of – in air particulates by ICP-AES 654
– detmn. of – in aluminum alloys by proton activation anal. 421
– detmn. of – in biological materials and coals by inverse voltammetry and AAS, sample combustion in oxygen stream 32
– detmn. of – in biological materials by epithermal NAA 588
– detmn. of – in fly ashes by STPF-AAS 654
– detmn. of – in fuel oils, evaluation of standard reference materials 220
– detmn. of – in geological materials by ICP-OES 509
– detmn. of – in lead-antimony alloys, multielement preconcentration 157
– detmn. of – in lead chloride and lead sulfate by AAS, extraction-concentration 278
– detmn. of – in natural water by ICP-AES, preconc. by dithiocarbamate extr. 658
– detmn. of – in rocks by AAS, presepn. by ion-exchange 330
– detmn. of – in urine, comparative AAS study 520
– detmn. of – in zirconium and zirconium alloys by X-ray fluorescence spectrometry 420
Trace metals
– accuracy in detmn. of – in certified reference sediments 330
– anal. of – as diethyldithiocarbamates in water by GC 427
– detmn. of –, cadmium by Zeeman spectrometry, atomic absorption 404

Trace metals
– detmn. of – in marine sediments and biological tissues using STPF-AAS 330
– detmn. of – in plastics by AAS with cup-in-tube solid sampling 508
– detmn. of – in sea water extr. by Chelex-100 658
– detmn. of – in waste water by emission spectrometry 658
– multi-element detmn. of – in sea water by ICP-AES 334
Trace substances
– in air, phys.-chem. behavior, book 563
Tranilast
– detmn. of – and metabolites in blood plasma and urine by HPLC 526
Transformation, non-linear
– of factors in empirical modelling based on experimental designs 210
Transient molecules
– high-resolution spectroscopy of –, book 304
Transition metals
– mixed-ligand complexes of some – of group IV–VI 409
Tranylcypromine
– detmn. of – in blood plasma by GC/CI-MS 528
Trazodone
– anal. of – and chlorophenylpiperazine, m- in blood plasma and brain tissue by HPLC 594
Trialkyllead
– detmn. of – species in urine 129
Triallate
– detmn. of – residues in soils by HPLC 579
Triazine herbicides
– anal. of – in soils by GC and HPLC 377
Triazines
– sepn. of s–, herbicides by countercurrent chromatography 587
1,2,4-Triazoles
– sepn. of – by HPLC 585
Triazophos
– detmn. of – in garlic by GC 393
Trichloroacetates
– sepn. of n-alkyl acetates, monochlorinated C_1–C_8, chloroacetates, dichloroacetates and – by capillary GC 499
Trichloroethane
– detmn. of trichloroethylene and – in water by gas detector tube 660
Trichloroethylene
– comparison of recoveries of – from charcoal tubes and thermally-desorbable personal monitors 655
– detmn. of – and trichloroethane in water by gas detector tube 660
Tricresyl phosphates
– detection of – in oils, edible by TLC and GC 229
Tricyclic drugs
– electrochem. detection of amitriptyline, nortriptyline, imipramine, carbamazepine, – at polymer electrodes 434
Triethylaluminum
– direct GLC anal. of commercial – and triisobutylaluminum 326
– ident. and GC anal. of products of – partial ethanolysis 507
Triethylenethiophosphoramide
– assay of – in blood serum and urine by GC 527
Triglycerides
– detmn. of free fatty acids and – in milk fat by GC, derivatization catalyst 431
– detmn. of – in fats by HPLC, special tempering procedure 431
– HPLC of – of Flacouriaceae seed oils containing cyclopentenyl fatty acids 577
– sepn. of – in confectionery fats by HPLC/UV detection 431
– sepn. of – on Iatroscan Chromarods 346
Triisobutylaluminum
– direct GLC anal. of commercial triethylaluminum and – 326
Trimethyl lead
– detmn. of total lead and – in biological materials by HPLC and AAS 521
2,2,7-Trimethyloctan-3,5-dione
– sepn. of metall chelates of – by GC and HPLC 326
Trimethylsilylacetylacetone
– as an effective silylating agent for chromatography, gas 406
Trinitrobenzenesulfonic acid
– detmn. of amines with – by differential pulse polarography 499
Trinitrotoluene
– detmn. of 2,4,6– in blood by HPLC 447
Trioctylamine
– solubility of – in water and phosphoric acid solutions 326
Triton X-100
– detmn. of – in proteins by derivative spectrophotometry 232
Trospium
– detmn. of – in biological materials by fluorimetry after derivatization 528
Trypsin
– detmn. of chymotrypsin and –, enzyme electrode 572
– high-performance affinity chromatography of – enzymes on Asahipak GS-gel coupled with p-aminobenzamide 448
Tryptamine
– detmn. of – in brain by HPLC 436
Tryptophan
– anal. of – metabolites in blood plasma by HPLC 343
– detmn. of – in foods, after barytic hydrolysis by gel chromatography 581
– HPLC of – and its irradiation products using UV and voltammetric detection 417
Tumor cells
– detmn. of dicarboxylic porphyrins in – by LC and TLC 441
Tungstate
– detmn. of – by volumetry 297
Tungsten
– detmn. of – in steel as thiocyanate-propericiazine complex by extr.-spectrophotometry 649
– detmn. of ruthenium in – by spectrometry 502
– extr. of molybdenum, – and technetium with polyurethane foam 637
Tungsten(VI)
– microdetmn. of – and vanadium(V) by kinetic catalytic method 646
– sepn. of molybdenum(VI), –, uranium(VI) and vanadium(V) by their chelates with hydroxamic acid resins 553
Tungsten concentrates
– detmn. of calcium oxide in – by AAS 504
Tyrosine
– detmn. of – metabolites, hydroxyphenylacetic acid, p-, hydroxymethoxyphenylacetic acid and hydroxymethoxymandelic acid in urine by GC/NICI-MS 235
Tyrosine O-sulfate
– ident. of – in proteins by HPLC 523

U

Ubiquinones
– detmn. of – by HPLC 580
Ullmann's Encyclopedia
– of industrial chemistry 563
Ultracentrifugation
– anal. of proteins by –, apparatus for automated fractionation 519
Uranium
– detmn. of – and thorium traces in aluminum 421
– detmn. of boron and – by AAS, pyrolytic carbon coating for contoured graphite tubes 642
Uranium
– detmn. of – in extractants by spectrophotometry 327
– detmn. of – in phosphoric acid by spectrophotometry 505
– detmn. of – in presence of plutonium by potentiometric titration 411
– detmn. of – in sea water with thiocyanate and Rhodamine B by spectrophotometry 659
– detmn. of lanthanides in – by ICP-AES 650
– Gmelin handbook, –, supplement Vol. C5, uranium dioxide 400
– polarographic reduction of some complexes of – with polyethers, macrocyclic 411
– preconc. of – in sea water with heterocyclic azo dyes 428
– sepn. of –, americium and europium by extr. with LIX 64 317
– sepn. of – from water by sorption on modified cellulose 428
– sepn. of trace – from waste water on polyurethane foam 428
Uranium(VI)
– indirect detmn. of – by measurement of fluorescent emission by europium(III) 643
– sepn. of molybdenum(VI), tungsten(VI), – and vanadium(V) by their chelates with hydroxamic acid resins 553
Uranium carbide
– detmn. of combined and free carbon in – by conductivity method 650
Uranium dioxide
– Gmelin handbook, uranium, supplement Vol. C5, – 400
Uranium oxides
– detmn. of boron in – with curcumin by extr. spectrophotometry 649
Uranium products
– detmn. of samarium, gadolinium and dysprosium in – by direct current plasma spectrometry 650
Urea
– detmn. of – and hydrazine in waste water by simult. spectrophotometry 429
– detmn. of biuret in – and fertilizers by cupric ion-selective electrode 579
– detmn. of – by ion chromatography with urease reactor 217
Urea nitrogen
– detmn. of – in blood with o-phthalaldehyde, interference monoclonal proteins 590
Urease reactor
– detmn. of urea by ion chromatography with – 217
Uric acid
– detmn. of ascorbic acid and – in biological fluids by HPLC with ECD 593
– detmn. of – in biological fluids using bienzyme electrodes 233
Urinary stones
– anal. of – by NAA 520
Urine
– anal. of 10-deazaaminopterin, 10-ethyl-10-deazaaminopterin in blood plasma and – by HPLC/fluorimetry 445
– anal. of – by HPLC, sample purification on extraction column 519
– anal. of corticosteroids, dexamethasone in – by capillary GC/ECD/NCI-MS 239
– anal. of eumelanin-related indolic compounds in – by HPLC 446
– anal. of proteins in – by two-dimensional gel electrophoresis 344
– assay for benzisoquinolinedione, nafidimide in blood plasma and – by reversed-phase HPLC 246
– assay for doxapram in – and blood plasma by capillary GC with N-P detection 245
– assay of triethylenethiophosphoramide in blood serum and – by GC 527

Urine
– detection of anabolics, steroids in – by capillary GC/MS 347
– detmn. of α-amylase in blood serum and – by continuous-flow potentiometric method 241
– detmn. of β-aminoisobutyric acid in – and blood serum by HPLC 235
– detmn. of adipic acid in – by GC, extractive alkylation 342
– detmn. of alprenolol in – as oxazolidinone methyl carbonate by capillary GC 244
– detmn. of ampicillin, amoxicillin and ciclacillin in blood serum and – by HPLC, pre-column derivatization 246
– detmn. of antimony in – by candoluminescence 589
– detmn. of benzo(a)pyrene and metabolites in – by HPLC 596
– detmn. of benzoylecgonine in – by capillary GC 595
– detmn. of bezafibrate in blood plasma and – by HPLC 527
– detmn. of carbenicillin, ticarcillin and sulbenicillin in blood serum and – by HPLC 527
– detmn. of chloride in blood serum and – by diffusion of HCl/Cl^--sensitive electrode 341
– detmn. of chloroquine, amodiaquine and metabolites in blood, red blood cells and – by HPLC 446
– detmn. of chromium in – and blood plasma of steel welders, evidence of toxicity 341
– detmn. of chromium in – by probe electro-thermal AES 403
– detmn. of chromium in – by spectrometry, atomic absorption, electrothermal, background correction 589
– detmn. of clavulanic acid and sulbactam in blood plasma and – by HPLC 246
– detmn. of codeine and morphine in – by capillary GC/MS 348
– detmn. of creatinine in blood serum and – by bioluminescence method in continuous flow mode 437
– detmn. of debrisoquine in – by HPLC 594
– detmn. of debrisoquine in – by LC 594
– detmn. of dexamethasone in blood plasma and – by electron-impact MS 528
– detmn. of D-glucaric acid in – by semi-automated centrifugal anal. 590
– detmn. of dipipanone in blood plasma and – by HPLC 528
– detmn. of doxepin and nordoxepin in – by HPLC 444
– detmn. of enantiomers of loxoprofen sodium and metabolites in – by LC 526
– detmn. of enoxacin and metabolite in blood plasma, – and saliva by HPLC 245
– detmn. of ketoprofen in blood serum and – by HPLC, dual column assay 243
– detmn. of lead in – by electrothermal AAS with STPF and matrix modification 341
– detmn. of metals in – by direct injection of sample, HPLC and electrochem. or photometric detection 588
– detmn. of N-acetyl-L-glutamine in – by HPLC 290
– detmn. of neutral steroid metabolites in – by capillary GC 440
– detmn. of noradrenaline and adrenaline in – by HPLC solid-phase reactors 437
– detmn. of nucleosides and nucleobases in – by HPLC 441
– detmn. of oxalate in – by immobilized enzyme electrode 590
– detmn. of oxalate in – using oxalate oxidase enzyme electrode 436
– detmn. of pentopril and metabolite in – 244
– detmn. of piquindone in blood plasma and – by HPLC 444

Urine
– detmn. of salbutamol in blood plasma and – by HPTLC 526
– detmn. of thiodiglycol in – by GC/MS, metabolite of mustard gas 448
– detmn. of thioridazine 5-sulfoxide diastereomers in blood serum and – by TLC, HPLC and MS 348
– detmn. of thromboxane B_2 in – by chromatography, GLC/NICI-MS 446
– detmn. of trace elements in –, comparative AAS study 520
– detmn. of tranilast and metabolites in blood plasma and – by HPLC 526
– detmn. of trialkyllead species in – 129
– detmn. of tyrosine metabolites, hydroxyphenyl-acetic acid, p-, hydroxymethoxyphenylacetic acid and hydroxymethoxymandelic acid in – by GC/NICI-MS 235
– detmn. of vanillylmandelic acid and homovanillic acid in – by HPLC 522
– detmn. of zinc and copper in – by Zeeman effect flame AAS 520
– enantiomer sepn. of metoprolol analogues and metabolites in – by capillary GC after derivatization with phosgene 526
– enhancement effects in detmn. of silicon in – by DCP-AES/AAS 589
– level of human growth hormone in –, detmn. by a sandwich enzyme immunoassay 592
– screening of buprenorphine in – 447
– sepn. of porphyrins, isomers in – by HPLC 347

V

Valproic acid
– detmn. of – and metabolites by TLC and GC/MS 516
Vanadium
– detmn. of – in coals and coal fly ashes with N-m-tolyl-N-phenylhydroxylamine by extr. -spectrophotometry 573
– detmn. of – in petroleum products by catalytic method, chlorpromazine oxidation 220
– detmn. of – in steel with 2,2′-dipyridyl-2-quinolyl-hydrazone by extr.-spectrophotometry 322
– detmn. of molybdenum and – in sea water by AAS, metal chelate coprecipitation 659
– detmn. of nickel and – in petroleum by polarography 506
– detmn. of – traces in biological materials by ion exchange/spectrophotometry 521
– detmn. of – traces in steel by catalytic thermometry, gallic acid/bromate reaction 648
– detmn. of – with 1-(2-quinolyl-azo)-m-amino-phenol by photometry 496
– detmn. of – with o-aminobenzohydroxamic acid by extr. spectrophotometry 413
Vanadium(V)
– detmn. of – and molybdenum(VI) in alloys and steel with thymolphthalexon by spectro-photometry 322
– microdetmn. of tungsten(VI) and – by kinetic catalytic method 646
– sepn. of molybdenum(VI), tungsten(VI), uranium(VI) and – by their chelates with hydroxamic acid resins 553
– sepn. of rhenium(VII), molybdenum(VI) and – by chromatography, thin-layer, on Al_2O_3 407
Vanillylmandelic acid
– detmn. of – and homovanillic acid in urine by HPLC 522
Variamine blue
– detmn. of technetium in nuclear fuels with – by kinetic spectrophotometry 425
Varnishes
– detmn. of cobalt in paint dryers and – by differential pulse polarography 329

Vegetables
– detmn. of captan, folpet and captafol in water, fruits and – by TLC 585
– detmn. of carbamates, insecticides in – by HPLC, optimization of a reaction detector 585
– local detmn. of nitrogen and carbon in – with laser conversion into gaseous state, spectral-isotopic methods 335
Verapamil
– detmn. of – in blood serum by capillary GC 594
Vesicles
– detmn. of lipids in – by HPLC 592
Veterinary products
– detmn. of oxytetracycline in feed premixes and – by LC 578
Vinca-alkaloids
– detmn. of – in biological fluids by HPLC 446
Vincamine
– detmn. of – in blood plasma by capillary GC 447
Vinyl acetate
– detmn. of divinylacetylene and acetic acid as microimpurities in – by GC 508
Vinyl chloride
– detmn. of – in polyvinyl chloride by polarography 507
Vinylpyridine polymer
– retention of aromatic amino acids on – in LC 405
Vitamin A
– detmn. of – and vitamin E in biological fluids by HPLC 238
Vitamin B_2
– detmn. of – in biological materials by HPLC 593
– detmn. of – in serum of fish by HPLC 227
Vitamin B_6
– detmn. of – in biological materials by isotope dilution/MS 525
– detmn. of – in foods by HPLC 227
– detmn. of – in human milk and blood plasma by HPLC 238
Vitamin E
– detmn. of vitamin A and – in biological fluids by HPLC 238
Vitamin K_1
– detmn. of – in blood plasma by HPLC 525
– detmn. of – in tissues, animal by HPLC 525
Vitamins
– anal. of fat-soluble – using narrow-bore HPLC with multichannel UV-VIS detection 228
– modern chromatographic anal. of the –, book 198
Volatile compounds
– detmn. of – by capillary chromatography, gas, automated purge-and-trap system 206
– detmn. of – in grape juice by capillary GC, headspace methods 430
– ident. of – of acid-treated phosphate rocks by GC/MS 331
Voltammetric flow-injection
– computer-controlled – system 408
Voltammetry
– at microelectrodes, construction of single and arrays 208
– detmn. of gold by – at dithizone-modified carbon-paste electrode 181
– detmn. of nitrite by – with a modified graphite paste electrode 644
– electroanalytical – in flowing solutions 488
– improvement of the resolution in – 488
– study of hexacyanoferrate III/II by – at glassy carbon electrode 207
Voltammetry, anodic stripping
– with cellulose acetate coated mercury film electrodes 488
Voltammetry, cyclic
– detmn. of indium and indium oxide by – in DC and AC mode 611

Voltammetry, square-wave
– analytical application of – 636
Voltammetry, stripping
– indirect estim. of theoretical limit of detection in – from non-reproducibility of residual current 489
– reversible electrode processes in – of metal complexes 489

W

Warfarin
– detmn. of – and sulfaquinoxaline in rodenticides by LC 586
Waste incineration
– detmn. of cadmium, chromium, copper, nickel and zinc in city – ash by ICP-AES 430
Waste water
– detmn. of anions in cooling tower – by ion chromatography 512
– detmn. of bismuth in steel, alloys and – with 2-(4,5-methylthiazolyl-2-azo)-5-diethylamino-phenol by spectrophotometry 322
– detmn. of chemical oxygen demand in – and effluents by FIA 657
– detmn. of disinfectants, phenols in – by capillary GC 20
– detmn. of hexabromocyclodecane in – by ion-selective electrodes 429
– detmn. of mercury in – by NAA and AAS 659
– detmn. of phenols in water and – by HPLC 335
– detmn. of trace metals in – by emission spectrometry 658
– detmn. of trace polymers in – by spectro-photometry 429
– detmn. of urea and hydrazine in – by simult. spectrophotometry 429
– potentiometric titration of bisarenechromium compounds in – 513
– sepn. of trace uranium from – on polyurethane foam 428
Water
– anal. of aluminum-brass corrosion products in sea – 427
– anal. of –, apparatus for continuous measurements 427
– anal. of boron in – with curcumin method 427
– anal. of hydrogen isotopes of – by MS, sample prep. 511
– anal. of protein traces in sea – and biological fluids by automated fluorescence assay 660
– anal. of sea –, cluster analysis for study of sampling location 146
– anal. of trace metals as diethyldithio-carbamates in – by GC 427
– anal. of variance in detmn. of equivalence volume and ionic product of – in potentiometric titration 638
– chiral recognition of enantiomeric peptides in – by calorimetry 660
– classification of the quality of surface – by means of pattern recognition 334
– coulometric detmn. of microquantities of – with Fischer's reagent 651
– detmn. of ^{113m}cadmium in – by XRF anal. 513
– detmn. of acetic acid, formic acid and propanoic acid in rain – and HPLC 333
– detmn. of acrolein in rain – by GC, after bromination 429
– detmn. of aluminum in – by flow-injection anal., comparison of 4 chromogenic reagents 334
– detmn. of – and ascorbic acid in dry fruits by coulometry 580
– detmn. of arsenic(III) and (V) in natural – by extr. and NAA 659
– detmn. of boron in – by flame AES as methyl borate 427
– detmn. of boron in – by spectrophotometry/ FIA 659
Water
– detmn. of boron in plants and – with crystal violet by spectrophotometry 513
– detmn. of bromide in natural – by flow injection anal. 658
– detmn. of calcium and magnesium in – by FIA 659
– detmn. of captan, folpet and captafol in –, fruits and vegetables by TLC 585
– detmn. of carbon in materials for drinking – by IR spectrometry 428
– detmn. of chloride in stream – with ion-selective electrodes 512
– detmn. of chlorine in – with pyridine/ pyrazolone method 657
– detmn. of copper(II) in tap – by chemi-luminescence 658
– detmn. of copper in river – by solvent extr. -AAS after preconc. 513
– detmn. of copper in sea – by GC with AAS detection 427
– detmn. of cyanide in – by spectrophotometry 428
– detmn. of dissolved oxygen in – by AAS 657
– detmn. of dissolved oxygen in – by potentiometric stripping anal. 657
– detmn. of dissolved silica in natural – by spectrophotometry as silicomolybdate 512
– detmn. of halogenorgano compounds in drinking – for breweries 579
– detmn. of halogenorgano compounds in –, standardization of AOX method 514
– detmn. of heavy metals in – and environmental samples by AAS after sorption preconc. 513
– detmn. of hydrocarbons, halogenated in marine and continental air and rain – by high resolution GC 1
– detmn. of – in acetone 651
– detmn. of macro conc. of – in water-ethanol mixtures by spectrophotometry 326
– detmn. of mercury(II) in – with piezoelectric crystals 642
– detmn. of mercury in sea – by anodic stripping voltammetry 513
– detmn. of mercuryorgano compounds and arsenicorgano compounds in – and air by GC/ AAS 369
– detmn. of molybdenum and vanadium in sea – by AAS, metal chelate coprecipitation 659
– detmn. of molybdenum in sea –, accuracy of combined ion exchange-photometric method 514
– detmn. of munitions in –, field extr. with resins 647
– detmn. of nitrate in – by flow injection analysis with copperised cadmium tubes 150
– detmn. of nitrate in – with stable reagent tablets 512
– detmn. of nitrite in – by ion-pair chromatography with amperometric detector 512
– detmn. of nitrite in – with 4-amino-1-naphthalenesulfonic acid by spectrophotometry 512
– detmn. of nitrogen-containing heterocyclic pesticides in plants, soils and natural – by voltammetry 585
– detmn. of nitrogen in – by continuous flow method/alkaline persulfate digestion 429
– detmn. of phenols in – and waste water by HPLC 335
– detmn. of phosphorus traces in – with Guinea Green B by spectrophotometry 512
– detmn. of residual pyrene and monochloropyrene in – by derivative spectro-fluorimetry 660
– detmn. of selenite and selenate in – by HPLC 496
– detmn. of silicon in – and steel by polarography 513
Water
– detmn. of sub-ng amounts of cadmium in natural – by radiochem. method 427
– detmn. of sub ppm sulfate in – by non-suppressed LC 658
– detmn. of sulfate in – by hydrolytic potentiometric titration 334
– detmn. of sulfite in rain – by ion chromatography 657
– detmn. of tetrachloroethylene in – using detector tube 514
– detmn. of tinalkyl compounds and inorganic tin in – by AAS 659
– detmn. of total antimony in marine organisms and – by stibine generation AAS 659
– detmn. of total phosphorus in – by photo-chemical decomposition 334
– detmn. of trace elements in natural – by ICP-AES, preconc. by dithiocarbamate extr. 658
– detmn. of trace metals in sea – extr. by Chelex-100 658
– detmn. of trace phenols in – by GC 429
– detmn. of trichloroethylene and trichloro-ethane in – by gas detector tube 660
– detmn. of uranium in sea – with thiocyanate and Rhodamine B by spectrophotometry 659
– detmn. of zinc, magnesium, copper and nickel in – by kinetic spectrophotometry, substitution of calmagite ligand by EDTA 512
– economy of – and solids at refuse dumps, book 303
– elemental analysis of – samples by spectrometry, ICP, problems 558
– fractionation of iron and phosphorus in surface – using d.c. ICP-AES 659
– hydration of cobalt(II) chloride in acetone in presence of small amounts of – 651
– interlaboratory comparison of pH-measurements in poorly buffered fresh – 638
– metrological support for anal. of natural – for metals 658
– multi-element detmn. of trace metals in sea – by ICP-AES 334
– nitrate in ground –, book 481
– preconc. of uranium in sea – with heterocyclic azo dyes 428
– removal of humic substances in – prior to measurements with nitrate ion-selective electrode 428
– Schweiz. Lebensmittelbuch, food analysis, drinking – 400
– sepn. of uranium from – by sorption on modified cellulose 428
– solubility of trioctylamine in – and phosphoric acid solutions 326
– titration of sulfides and thiols in natural – 657
– UV-extinctions of humic acids in –, influence of elemental composition 691
Water analysis
– statistical methods in –, book 197
Water quality
– representation of – by application of information theory 334
Wear metals
– detmn. of – in oils using energy dispersive X-ray spectrometry 574
Wheat
– detmn. of organic acids in – by capillary GC 580
Whisky
– detmn. of carbonyl compounds in – as dinitro-phenylhydrazones by HPLC 430
Wine
– analysis of –, book 400
– detection of diethylene glycol in – by TLC 225
– detmn. of amines, biogenic in – by fluorimetry 430
– detmn. of carbohydrates, alcohols and diethylene glycol in – by HPLC 225

Wine
– detmn. of diethylene glycol in – by capillary GC 430
– detmn. of diethylene glycol in – by Carbopack B purification and GC 430
– detmn. of diethyleneglycol in –, grape juice and grape juice concentrates by GC 580
– detmn. of sulfur dioxide in – by flow injection anal. 496
Wood
– detmn. of anions, inorganic in – of spruce stems by ion-chromatography 73
Woodward's reagent
– quant. of carboxyl groups in proteins with – by spectrophotometry 236
Workplace atmospheres
– detmn. of 1,3-propanesulton in – by HPLC/UV detection 57

X

X 50
– detmn. of – in blood serum by GC 446
Xenon
– chromatography, supercritical fluid, use of – 487
X-ray fluorescence analysis
– phys. matrix correction in – of silicate glass 667
Xylenols
– detmn. of phenol, cresols and – in workplace air by HPLC with electrochem. detection 655

Y

Yams
– detmn. of thiabendazole in – by GC/ECD 587
Yeast
– sepn. of histones in – by two-dimensional electrophoresis 439
Ytterbium
– detmn. of samarium, europium, – and lutetium in silicate rocks by AES 509
Yttrium
– detmn. of – and lanthanides by spectroscopy, graphite-furnace coherent forward scattering 396
– detmn. of – in nickel alloys with nitrochlorophosphonazo, p- by spectrophotometry 502
– detmn. of traces – and some heavy lanthanides by adsorptive stripping voltammetry 642

Z

Zeo-Karb-226
– adsorption of metal complexes with ferron on – for AAS 168
Zinc
– detmn. of – and copper in urine by Zeeman effect flame AAS 520
– detmn. of – by fluorimetry, complex formation of zinc-salicylidene aliphatic monoamines 641
– detmn. of –, cadmium and mercury by nitrogen after glowemission spectrometry 316
– detmn. of cadmium, chromium, copper, nickel and – in city waste incineration ash by ICP-AES 430
– detmn. of cadmium traces in – and its compounds by anodic stripping voltammetry 648
– detmn. of copper, – and cadmium by AAS, removing of interferences 211
– detmn. of copper and – in aluminum alloys by chelatometric titration 395
– detmn. of copper, – and iron in parotid saliva by FIA-AAS 589
– detmn. of copper, – and iron in whole blood by AAS 521
– detmn. of copper, lead, cadmium and – in soil lime by polarography 578
– detmn. of copper, lead, thallium, cadmium and – traces in aluminum by anodic stripping voltammetry 648
– detmn. of –, enhancement of the fluorescence of the zinc-morin complex by a non-ionic surfactant 641
– detmn. of – in alloys by titration and complexometry 421
– detmn. of – in blood by Zeeman AAS 340
– detmn. of – in blood plasma by AAS 340
– detmn. of iron, cobalt, copper, – and lead in nickel and nickel sulfate by ICP-AES and NAA 502
– detmn. of lead and cadmium in – by voltammetry, inverse 501
– detmn. of –, magnesium, copper and nickel in water by kinetic spectrophotometry, substitution of calmagite ligand by EDTA 512
– detmn. of nickel, copper and – as tetraphenylporphine chelates by HPLC 216
Zinc
– detmn. of nickel, copper, – and cadmium by X-ray fluorescence spectrometry, preconc. on ion-exchange membranes 498
– detmn. of – traces by FIA with immobilized carbonic anhydrase 211
– detmn. of – with pyrocatechol-1-aldehyde 2-pyridylhydrazone by fluorimetry 641
– effect of solvation on reactions between aluminum, gallium, indium, –, cadmium and azo compounds 212
Zinc-nickel alloys
– anal. of – electroplated steel sheet by a low discharge emission spectrometry 421
Zinc ores
– detmn. of indium in nickel alloys and – by spectrophotometry 649
Zirconium
– detmn. of – and hafnium in alloyed steel by sorption AES 419
– detmn. of hafnium and – with 3,7-dihydroxyflavone by fluorimetry 644
– detmn. of – in alloys by derivative spectrophotometry 422
– detmn. of trace elements in – and zirconium alloys by X-ray fluorescence spectrometry 420
Zirconium(IV)
– detmn. of fluoride, – with PAR by spectrophotometry 413
Zirconium alloys
– detmn. of trace elements in zirconium and – by X-ray fluorescence spectrometry 420
Zirconium oxide
– sepn. of bismuth from other metals by chromatography, thin-layer on hydrous – 407
Zirconium phosphate
– anal. of – ion exchangers by X-ray diffraction spectrometry 633